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Itineraries of Routes and Tables of Distances,

WITH A

List of Posts, their Location, Garrisons, and Commanding
Officers; Posts which have been Occupied, with Dates
of Establishment and Abandonment; Forage
Agencies; Distances to Indian
Agencies and Names of
Agents, in the

Department of the Columbia,

BREVET BRIG.-GEN. FRANK WHEATON,

Colonel, 2d Infantry, Commanding.

PREPARED BY

FIRST LIEUT. THOMAS W. SYMONS, CORPS OF ENGINEERS,

Chief Engineer, Department of the Columbia.



HEADQUARTERS DEPARTMENT OF THE COLUMBIA,

VANCOUVER BARRACKS, W. T., MAY 1, 1881.



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Thomas W. Symons,

Corps of Engineers,
U. S. Army.



NOTE.

Many of the distances given in these tables are from actual odometer measurements; some are from the official distances of the Post Office Department, and others are estimated and derived from the commonly accepted distances of the people traversing the routes. They have all been compiled from the most authentic information attainable, and are published for the information and assistance of the officers of this command.

Officers traveling the routes given are invited to co-operate in the correction of errors, and the collection of additional information.

Blank pages are left in this pamphlet, in order that officers may add from time to time such itineraries and routes as they may become aware of. These they are requested to forward to these Headquarters, in order that they may be published for the benefit of all.

The tables give in the first column the distances between the consecutive points named; in the second column is given the total distance from the first-named point, and in the third column is given the total distance from the last-named point.

I have made free use of the tables prepared by Lieutenant J. A. Sladen, 14th Infantry, Aide-de-Camp to General Howard, and of the materials and information concerning distances gathered by him.

The distances from Indian Agencies to nearest towns and cities are from Lieutenant Sladen's tables, with such modifications as were found necessary by later determinations.

The Department of the Columbia embraces the State of Oregon and the Territory of Washington, and all that part of the Territory of Idaho which lies to the west of the northward extension of the boundary line between Utah and Nevada.

The Headquarters of the Department are at Vancouver Barracks, W. T., 18 miles by water from Portland, Oregon, which is the commercial center of the Department, and the point from which the various posts in the Department are supplied.

Its present commander is Brevet Brigadier-General Frank Wheaton, Colonel, 2d Infantry.

The following are the Posts in the Department now Occupied by Troops; their Positions, Garrisons, and Commanding Officers.

(May 1st, 1881.)

NAME.	LATITUDE.	LONGITUDE WEST FROM WASHINGTON.	Altitude above Sea.—Feet.	GARRISON.	COMMANDING OFFICER.
Boise Barracks	43° 47'	38° 57'	2812	Companies F, 1st Cavalry, and A, 21st Inf.	Major G. G. Huntt, 1st Cavalry.
Fort Canby	46° 16' 33"	47° 02' 13"		" G and M, 4th Artillery.	Major W. M. Graham, 4th Art.
Camp Spokane	47° 51'	41° 19' 24"	1615	" D, E, F, and K, 2d Infantry.	Major Leslie Smith, 2d Infantry.
Fort Coeur d'Alene	47° 38' 45"	39° 43' 22"	2311	" A, B, G, and I, "	Captain William Mills, 2d Infantry.
Fort Colville	48° 36' 20"	40° 45'	2800	Co's. H, 1st Cavalry, and C and H, 2d Inf.	Lt.-Col. H. C. Merriam, 2d Inf.
Camp Howard	46° 5'	39° 5'	4100	Detachment of Company E, 1st Cavalry.	Lieut. S. C. Robertson, 1st Cav.
Fort Klamath	42° 39' 4"	44° 40'	4200	Companies I, 1st Cavalry, and C, 21st Inf.	Captain S. G. Whipple, 1st Cav.
Fort Lapwai	46° 26'	39° 43' 21"	900	" I, 21st Infantry, and E, 1st Cav.	Captain W. F. Spurgin, 21st Inf.
Fort Stevens	46° 31'	47° 58'	6½	Company H, 21st Infantry.	Lieut. F. E. Eltonhead, 21st Inf.
Fort Townsend	48° 7' 3"	45° 41' 20"	135	Companies D and B, 21st Infantry.	Captain R. Pollock, 21st Infantry.
Vancouver Barracks	45° 40'	48° 27'	50	" E, F, G, and K, 21st Infantry.	Lt.-Col. A. Chambers, 21st Inf.
Vancouver Arsenal	45° 40'	48° 27'	50	Detachment of Ordnance.	Captain J. A. Kress, Ord. Dept.
Fort Walla Walla	46° 3' 55".89	41° 17' 48".34	1033.5	Companies A, B, D, K, and M, 1st Cavalry.	Colonel C. Grover, 1st Cavalry.

Military Posts, Camps, Barracks, etc., in the Department of the Columbia.

NAMES.	ESTABLISHED.	ABANDONED.	REMARKS.
Fort Bellingham, W. T.. CANBY.....	Aug. 26, 1856. April 5, 1864.	April 28, 1860.	Formerly called Fort Cape Disappointment; name changed January 28, 1875.
Cascades	Sept. 30, 1855.	Nov. 6, 1861.	
Chehalis	Feb. 11, 1860.	July 19, 1860.	
CŒUR D'ALENE.....	April 16, 1878.	.....
COLVILLE	June 20, 1859.	.....
Dalles	May 21, 1850.	.....	Established as Camp Drumm; name changed July, 1853.
Hoskins, Oregon...	July 26, 1856.	April 10, 1865.	
Kodiak, Alaska.....	June 6, 1868.	Sept. 18, 1870.	
Kenay, Alaska.....	April 17, 1869.	Oct., 1870.	
KLAMATH, OREGON	Sept. 5, 1863.	.....
Lane.....	Sept. 28, 1853.	Sept. 17, 1856.	
LAPWAI.....	Aug. 6, 1862.	.....	Abandoned from May to Nov. 1866
Logan	Dec. 1866.	Jan., 1869.	
Orford	Sept. 14, 1851.	July 10, 1856.	
Sitka, Alaska.....	Oct. 29, 1867.	July 14, 1877.	
Simcoe.....	Aug. 8, 1856.	May 22, 1859.	
STEVENS.....	1864.	.....
Steilacoom	Aug. 28, 1859.	April 22, 1868.	
Taylor.....	Aug. 11, 1858.	Oct. 2, 1858.	
Tongas, Alaska.....	April 29, 1868.	Oct. 7, 1870.	
TOWNSEND	Oct. 26, 1856.	.....	Abandoned from 1859 to July, 1874
Umpqua.....	July 28, 1856.	July 16, 1862.	
WALLA WALLA.....	Sept. 23, 1856.	.....	Abandoned from 1867 to 1873.
Wrangle, Alaska...	May 5, 1868.	Sept. 27, 1870.	
Warner.....	July 15, 1866.	Sept. 1, 1867.	
Wright.....	Dec. 1866.	January, 1869.	
Yamhill, Oregon...	Aug. 30, 1856.	June 30, 1866.	
Camp Alvord .....	.....	.....	Occupied in 1865.
Chelan	Sept. 2, 1879.	Sept., 1880.	
Colfax.....	.....	.....
Curry.....	.....	.....	Occupied in 1865.
Harney	Aug. 16, 1867.	May 5, 1880.	Established as Camp Steel; name changed September 14, 1867.
HOWARD	Aug. 12, 1877.	.....
Loring, Oregon ...	July, 1849.	May 6, 1850.	
Lyon, I. T.....	June 27, 1865.	April 27, 1869.	
San Juan	1859.	.....	Established July 27, 1859, as Camp Picket; called Camp Steele in March, 1867, and Camp San Juan Island Nov. 23, 1868.
SPOKANE	Nov., 1880.	.....
C. F. Smith	April, 1866.	Nov. 9, 1869.	
Three Forks.....	Sept. 25, 1866.	Oct. 23, 1871.	Established as Camp Winthrop; name changed in April, 1867.
Warner.....	Sept., 1867.	Sept. 13, 1874.	
Watson	July 12, 1864.	May 24, 1869.	
Winthrop .....	.....	.....	See Camp Three Forks.
BOISE BARRACKS, I. T...	July 4, 1863.	.....	Formerly known as Fort Boise.
VANCOUVER BARRACKS..	May 15, 1849.	.....	Established as Columbia Barracks; name changed July 13, 1853, to Fort Vancouver; changed again April 5, 1879, to Vancouver Barracks.
VANCOUVER ARSENAL ...	1859.	.....

FORAGE AGENCIES.

Corrected to May 1, 1881. (See Circular No. 17, Headquarters Department of the Columbia, September 5, 1880.)

FORT WALLA WALLA FORAGE DISTRICT.—No. 1.

No. of Station.	STATION.	AGENT.	Distance between points.	Price of Grain	Price of Hay	Officer designated to pay for Forage.
			miles.	cts.	cts.	
1	Touchet River, W. T.	B. F. Flathers	3	2	} Post Q. M., Fort Walla Walla.
2	Palouse Ferry, do.	Lyons & Markley ...	24	4	3½	
3	Washucna Springs, do.	G. W. Bassett.....	18	4	3½	
4	Cow Creek, do.	J. F. Cass	18	4	3	
5	Waitsburg, do.	Frank G. Hart.....	.....	2½	1½
6	Dayton, do.	W. R. Brown.....	10	2	1½	
7	Marengo, do.	H. Harris.....	14	3	2	
8	Pomeroy, do.	Mulkey Brothers....	12	3	1½	

FORT CEUR D'ALENE FORAGE DISTRICT.—No. 2.

1	Big Lake Ranch, W. T.	P. Comasky.	3	2	} Post Q. M., Fort Cœur d'Alene, I. T.
2	Crab Creek, do.	C. Misner.....	20	4	3	
3	Spokane Falls, do.	Davenport & King..	30	3½	2½	
4	Moran's Ranch, do.	Jos. Moran .....	.....	3	3
5	Rosalia, do.	J. M. Whitman	30	3	2	
6	Colfax, do.	Davenport & King..	30	3½	2½	
7	Cottonwood Springs, do.	A. Harker.....	20	4	2	

FORT COLVILLE FORAGE DISTRICT.—No. 3.

1	Spokane Bridge, W. T.	Jos. Lapray	3	3	} Post Q. M., Fort Colville, W. T.
2	Haines' Ranch, do.	Guy Haines.....	.....	4	2
3	Young's Ranch, do.	H. E. Young .....	.....	2	1½
4	Chevalah, do.	Thos. Brown.....	.....	2	1

FORT LAPWAI FORAGE DISTRICT.—No. 4.

1	Rafferty's Ranch, W. T.	Jas. Rafferty.....	1½	1½	} Post Q. M., Fort Lapwai, I. T.
2	Alpowa, do.	D. H. Mohler.....	9	2½	2½	
3	Lewiston, I. T.	N. B. Holbrook	15	1½	1½	
4	Spring Ranch, I. T.	P. White.....	.....	2	1½
5	Mason's Ranch, I. T.	P. White.....	8	2	1½	
6	Ruddy's Ranch, W. T.	Richard Ruddy .....	.....	2	1½

CAMP HOWARD FORAGE DISTRICT.—No. 5.

1	Cottonwood, I. T.	H. L. Wilson	18	3	2	{ Post Q. M., Camp Howard, I. T.
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XXXIII.....	Ainsworth.....	do. do.	N. P. R. R. to Sprague.....	166.22
XXXIV.....	Fort Colville....	do. do.	100.8
XXXV.....	Roseburg.....	Redding, Cal	275.0
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TABLE NO. I.

Portland, Oregon, to Lewiston, I. T.—via the Columbia and Snake Rivers.

From information furnished by the Oregon Railroad & Navigation Company.

LOCALITY.	Dist.—Miles.		Alt.	BY	REMARKS.
		From Portland. From Lewiston.			
PORTLAND .....	..	401	50	.....
Vancouver	18	18 383	50	River.	
Lower Cascades	45	63 338	.....	"
Upper Cascades	6	69 332	126	Railroad.	
Hood River	28	97 304	.....	River.	{ Connections for Warm Springs, Prineville, Canyon City, &c.
The Dalles	24	121 280	134 7	"	
Celilo	14	135 266	160	Railroad.	
Columbus	6	141 260	.....	River.	
John Day's Rapids	10	151 250	.....	"
Indian Rapids	3	154 247	.....	"
Squally Hook	3	157 244	.....	"
Rock Creek	4	161 240	.....	"
Chapman's Woodyard	8	169 232	.....	"
Owyhee Rapids	2	171 230	.....	"
Willow Creek	13	184 217	.....	"
Castle Rock	8	192 209	.....	"
Canoe Encampment	2	194 207	.....	"
Foot of Long Island	4	198 203	.....	"
Grande Ronde Landing	12	210 191	.....	"
Devil's Bend	3	213 188	.....	"
Umatilla	4	217 184	.....	"	{ Connections for Baker City, Boise, Kelton, &c.
Head Umatilla Rapids	6	223 178	.....	"
Windmill Rock	3	226 175	.....	"	{ Connections for Walla Walla, Lewiston, Lapwai, Grande Ronde, &c.
Walla	14	240 161	.....	"
Homely Rapids	5	245 156	.....	"
Ainsworth	6	251 150	.....	"	{ Connections for Camp Spokane, Spokane Falls, Colville & Cœur d'Alene.
Five-Mile Rapids	5	256 145	.....	"
Fish-Hook Rapids	9	265 136	.....	"	Snake River.
Lower End of Canon	2	267 134	.....	"
Upper End of Canon	2	269 132	.....	"
Jim Fort Island	6	275 126	.....	"
Pine Tree Rapids	7	282 119	.....	"
Palouse Ferry	30	312 89	.....	"	{ Connections for Camp Spokane, Fort Colville, Spokane Falls, &c.
Tucannon or Grange City	5	317 84	.....	"
Texas Rapids	6	323 78	.....	"
Texas Ferry	2	325 76	.....	"	{ Connections for Spokane Falls. &c.
New York Bar	10	335 66	.....	"
Central Ferry	6	341 60	.....	"
Purrrington	2	343 58	.....	"
Penewawa	5	348 53	.....	"	{ Stage connections for Walla Walla, Colfax, Spokane Falls, &c.
Almota	14	362 39	.....	"
Wawawa	8	370 31	.....	"
Septoe	19	389 12	.....	"
Alpowa	3	392 9	.....	"
Selkirk's or White's Ferry	2	394 7	.....	"	{ Connections for Spokane Falls, Colfax, Walla Walla, Dayton, Lapwai, Mount Idaho, Camp Howard, Kamia, &c.
LEWISTON	7	401	.....	"

TABLE NO. II.

Portland to Roseburg, Oregon.

From time-table of Oregon and California Railroad.

LOCALITY.	Dist.—Miles.		REMARKS.
	From East Portland.	From Roseburg.	
EAST PORTLAND.....	.....	200	
Milwankie.....	7	7	193
Clackamas.....	4	11	189
Oregon City.....	5	16	184
New Era.....	4	20	180
Canby.....	5	25	175
Aurora.....	4	29	171
Hubbard.....	4	33	167
Woodburn.....	4	37	168
Gervais.....	3	40	160
Brooks.....	5	45	155
Salem.....	8	53	147 { Stages for Lincoln, Wheatland, Monmouth, Dallas, Silverton and Independence.
Turner.....	8	61	139 { Stages for Annesville, Sublimity, Stayton, Meha- ma and King's Prairie.
Marion.....	6	67	133 Stages for Scio.
Jefferson.....	5	72	128
Miller's.....	4	76	124
Albany.....	5	81	119 { Stages for Lebanon, Corvallis, Philomath, Ya- quina Bay, Beuna Vista, Sodaville, Sweet Home and Waterloo.
Tangent.....	6	87	113
Shedds.....	6	93	107
Halsey.....	5	98	102
Harrisburg.....	8	106	94 Stages for Brownsville and Crawfishville.
Junction.....	4	110	90 Stages for Monroe and Gird's Station.
Irving.....	7	117	83
Eugene City.....	7	124	76 { Stages for McKinzie's Bridge, Upper Ochoco and Prineville.
Creswell.....	11	135	65
Latham.....	10	145	55
Divide.....	3	148	52
Comstock.....	8	156	44
Drains.....	5	161	39 { Stages for Empire City, Marshfield, Elkton, Scotts- burgh and Gardner City.
Yoncalla.....	6	167	33
Rice Hill.....	6	173	27
Oakland.....	8	181	19 Stages for Cleveland.
Umpqua.....	9	190	10
ROSEBURG.....	10	200	.... { Stages of O. & C. Stage Co. for all points in South- ern Oregon, California and the East.

TABLE NO. III.

Portland to Corvallis, Oregon.

From time and distance table of Oregon and California Railroad—West Side Division.

LOCALITY.	Dist.—Miles.		REMARKS.
		From Portland.	From Corvallis.
PORTLAND.....	.....	97	Telegraph Station.
Fourth Street Bridge.....	2	2	95
Summit.....	4	6	91
Beaverton.....	6	12	85
Reedville.....	4	16	81
Newton.....	3	19	78
Hillsboro.....	2	22	76
Cornelius.....	3	24	73
Forest Grove.....	2	26	71
Dilley's.....	2	28	69
Gaston.....	4	32	65
Wapato.....	2	34	63
North Yamhill.....	6	40	57
Carleton.....	3	43	54
St. Joseph.....	4	47	50
McMinnville.....	3	50	47
Crossing W. V. R. R.....	4	54	43
Amity.....	3	57	40
McCoy's.....	5	62	35
Derry.....	8	70	27
Independence.....	6	76	21
Parker's.....	5	81	16
Soap Creek.....	2	83	14
Well's.....	3	86	11
Mt. View.....	.....	.....	.....
CORVALLIS.....	11	97	.....
			Telegraph Station. Stages for Yaquina Bay.

TABLE NO. IV.

Portland to Eugene City, Oregon,—via the Willamette River.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Dist.—Miles.		REMARKS.
		From Portland. From Eugene City.	
PORTLAND .....	.....	.....	172.0
Milwaukie	5.5	5.5	166.5
Oswego	2.0	7.5	164.5
Oregon City.....	5.5	13.0	159.0
Rock Island.....	3.0	16.0	156.0
Boone's Ferry.....	9.0	25.0	147.0
Butterville	4.0	29.0	143.0
Champoeg	3.5	32.5	139.5
Roger's Landing.....	3.5	36.0	136.0
Yamhill River.....	4.5	40.5	131.5
Fairbanks ¹	1.5	42.0	130.0
Weston	2.0	44.0	128.0
Five Islands.....	6.5	50.5	121.5
Fairfield	3.5	54.0	118.0
Wheatland.....	4.0	58.0	114.0
Lincoln.....	6.0	64.0	108.0
Salem	6.0	70.0	102.0
Eola	3.0	73.0	99.0
Independence	7.0	80.0	92.0
Buena Vista.....	10.0	90.0	82.0
Spring Hill.....	7.0	97.0	75.0
Albany.....	6.0	103.0	69.0
Corvallis.....	11.5	114.5	57.5
Peora	13.0	127.5	44.5
Harrisburg	20.5	148.0	24.0
EUGENE CITY.....	24.0	172.0	.....

TABLE V.

Portland to Astoria, Oregon, and Forts Canby and Stevens.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Dist.—Miles.		REMARKS.
		From Portland. From Fort Stevens.	
PORTLAND.....	.....	.....	116 $\frac{3}{4}$
Kalama	42	42	74 $\frac{3}{4}$
Astoria	68	110	6 $\frac{3}{4}$
Fort Stevens.....	63 $\frac{3}{4}$	116 $\frac{3}{4}$	.....
Astoria to Fort Canby....	14	.....	.....
* Fort Stevens.....	.....	.....	.....

* Abandoned January, 1881.

TABLE NO. VI.

Portland, Oregon, to Fort Townsend, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Dist. — Miles.		Altitude.	Authority.	REMARKS.
		From Portland. From Fort Townsend.			
PORTLAND.		238	50		
Kalama	42	42	196	Sladen.	Steamer.
Carroll's	4	46	192	N. P. R. R.	Railroad.
Monticello	4	50	188	"	"
Wallace's	1	51	187	"	"
Cowlitz	1	52	186	"	"
Castle Rock	9	61	177	"	"
Olequa	9	70	168	"	"
Craft's	2	72	166	"	"
Winlock	6	78	160	"	"
Napavine	7	85	153	"	"
Newaukum	4	89	149	"	"
Chehalis	3	92	146	"	"
Centreville	4	96	142	"	"
Skookum Chuck	5	101	137	"	"
Tenino	7	108	130	"	See Note.
Yelm Prairie	13	121	117	"	Railroad.
Lake View	17	138	100	"	"
Tacoma	9	147	91	Seaport.	Railroad.*
Seattle	25	172	66	"	"
Port Madison	12	184	54	P. O. Map.	Steamer.†
Port Gamble	26	210	28	"	"
Port Ludlow	7	217	21	"	"
Port Townsend	18	235	3	"	{ Connections for Victoria, Alaska, Whatcom, &c.
FORT TOWNSEND	3	238	135	Estimated.	Steamer or wagon.

NOTE.—At Tenino connections are made for Olympia by the Olympia and Tenino Railroad. From Tenino to Tumwater, 3 miles; from Tumwater to Olympia, 13 miles; from Portland to Olympia, 124 miles; from Olympia to Steilacoom 21 miles; from Steilacoom to Tacoma, 14 miles; from Olympia to Tacoma, by water, 35 miles.

* To Wilkeson coal mines, 28 miles.

† To Blakey, 10 miles, by steamer.

TABLE NO. VII.

Umatilla, Oregon, and Walla Walla, W. T., (via Baker and Boise City, I. T.), to Kelton, U. T.

Compiled by Lieut. J. A. Sladen, 14th Infantry, Aide-de-Camp.

LOCALITY.	Dist.—Miles.		Altitude	REMARKS.
		From Umatilla.		
UMATILLA, Oregon..			532	
Twelve-mile House.....	12	12	520	
The Wells.....	6	18	514	
PENDLETON, (Swift's Ranch).....	18	36	496	
Cayuse Ranch.....	14	50	482	
Blue Mountain Summit..	16	66	456	
Pelicans.....	15	81	441	
Orodel.....	11	92	430	
La Grande.....	3	95	427	
Union.....	16	111	411	
Stark's or North Powder	16	127	395	
Farley's Ranch.....	6	133	389	
BAKER CITY.....	16	149	373	
Lowes.....	18	167	355	
Sisley's or Weatherby....	17	184	348	
Miller Station.....	16	200	332	
Canvas, Idaho..	15	215	317	
Crystal.....	11	226	306	
Bluff Station.....	12	238	294	
Payette.....	13	251	281	
Willow Creek.....	18	269	263	
BOISE CITY.....	20	289	243	2812
Black's Station.....	16	305	227	
Bound's Station.....	12	317	215	
Canyon Creek.....	12	329	203	
Rattlesnake.....	9	338	194	
Cold Springs.....	13	351	181	
King Hill.....	10	361	171	
Clover Creek.....	9	370	162	
Malad.....	13	383	149	
Sand Springs.....	11	394	138	
Snake River Mines.....	10	404	128	
Desert.....	16	420	112	
Rock Creek.....	15	435	97	
Mountain Meadows.....	16	451	81	
Oakley.....	11	462	70	
Summit.....	11	473	59	
City of Rocks.....	11	484	48	
Raft River.....	12	496	36	
Clear Creek, Utah..	12	508	24	
Crystal Springs.....	11	519	13	
KELTON.....	13	532	4222.2	

BRANCH LINE.

WALLA WALLA.....		
Milton.....	10	miles.
Weston.....	9	19 do.
Centreville.....	3.25	22.25 do.
PENDLETON.....	22	44.25 do.

NOTE.—Stages of the Northwestern Stage Company run daily.

TABLE NO. VIII.

Walla Walla to Spokane Falls, W. T., (via Almota).

From measurements by Lieut. T. W. Symons, Corps of Engineers, and from P. O. Route Map.

LOCALITY.	Dist.—Miles.		Altitude	Authority.	REMARKS.
		From Walla Walla, From Spo- kane Falls.			
WALLA WALLA.....	.....	155.7	1033.5		
Buttercup.....	10.0	10.0	145.7	P. O. Map	
Waitsburg.....	8.5	18.5	137.2	Sladen.	{ Road to Taxas Ferry
Dayton.....	12.0	30.5	125.2	"	branches.
Burkesville.....	11.6	42.1	113.6	Odometer.	Road to Penewawa branches.
Marengo.....	4.3	46.4	109.3	"	
Pomeroy.....	8.7	55.1	100.6	"	
Mayview.....	8.0	63.1	92.6	Estimated	Road to Lewiston branches.
Ilia.....	6.5	69.6	86.1	P. O. Map	
Almota.....	0.5	70.1	85.6	Estimated	South bank of Snake River.
Onecho.....	5.5	75.6	80.1	P. O. Map	North " "
Colfax.....	10.0	85.6	70.1	"	{ Roads from Colfax in
Steptoe.....	14.7	100.3	55.4	Odometer.	{ every direction.
Rosalia.....	13.8	114.1	41.6	"	
Rock Creek.....	14.0	128.1	27.6	"	
Spangle.....	8.0	136.1	19.6	"	
SPOKANE FALLS.....	19.6	155.7	2150	"	{ Connections for Forts
					{ Colville, Cœur d'Alene and
					{ Camp Spokane.

NOTE.—From Walla Walla to Pomeroy, stage daily; from Pomeroy to Colfax, stage twice a week; from Colfax to Spokane Falls, stage three times a week. See Tables IX and XIII.

TABLE IX.

Walla Walla to Spokane Falls, W. T. (via Penewawa).

From measurements by Lieut. T. W. Symons, Corps of Engineers, P. O. Route Map, 1880, and Captain Sladen's tables.

LOCALITY.	Dist.—Miles.		Altitude	Authority.	REMARKS.
		From Walla Walla.			
WALLA WALLA.....	162.6	1033 5	
Buttercup P. O.....	10.0	10.0	152.6	P. O. Map	{ Road for Taxas Ferry branches.
Waitsburg.....	8.5	18.5	144.1	Sladen.	
Dayton.....	12.0	30.5	132.1	"	Road for Lewiston branches.
Tucannon.....	15.0	45.5	117.1	P. O. Map	
Central Ferry.....	17.0	62.5	100.1	"	Roads in every direction.
Penewawa.....	7.0	69.5	93.1	"	
Colfax.....	23.0	92.5	70.1	"	
Steptoe.....	14.7	107.2	55.4	Odometer.	
Rosalia.....	13.8	121.0	41.6	"	{ Connections for Colville, Cœur d'Alene and Camp Spokane.
Rock Creek.....	14.0	135.0	27.6	P. O. Map	
Spangle.....	8.0	143.0	19.6	"	
SPOKANE FALLS.....	19.6	162.6	.....	Odometer.
			2150		

NOTE.—Daily stage line over this route from Walla Walla to Colfax; thence to Spokane Falls stage three times a week. See Tables VIII and XIII.

TABLE NO. X.

Fort Walla Walla, W. T., to Fort Lapwai, I. T.

From measurements made by Lieut. T. W. Symons, Corps of Engineers, 1880.

LOCALITY.	Dist.—Miles.		Altitude	Authority.	REMARKS.
		From Fort Walla Walla.			
FORT WALLA WALLA .....	.....	.....	96.6	1033.5	
Waitsburg.....	18.5	18.5	78.1	Odometer.	{ Road to Taxas Ferry branches.
Dayton.....	12.0	30.5	66.1	"	
Burkesville.....	11.6	42.1	54.5	"	Road to Penewawa branches.
Marengo.....	4.3	46.4	50.2	1583	
Pomeroy.....	8.7	55.1	41.5	1982	{ Road to Almota and Colfax branches.
Pataha.....	2.6	55.7	38.0	2187	
Alpowa P. O. & toll-house	10.1	67.8	28.8	1600	
White's Ferry.....	11.5	79.3	17.3	1000	
Lewiston.....	5.0	84.3	12.3	1053	
FORT LAPWAI.....	12.3	96.6	.....	1225	

NOTE.—Daily stage line over this route.

TABLE NO. XI.

The Dalles, Oregon, to Walla Walla, W. T.

From P. O. Route Map. Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Dist.—Miles.		Altitude	Authority.	REMARKS.
		From The Dalles.			
THE DALLES.....			202.25	179.8	Stage Road.
Spanish Hollow.....	28	28	174.25	P. O. Map	
Scott's.....	17	45	157.25	"	
Rockville.....	6	51	151.25	"	
Olex.....	12	63	139.25	"	
Willow Forks.....	21	84	118.25	"	
Heppner.....	15	99	103.25	"	
Lena.....	15	114	88.25	"	
Butter Creek.....	13	127	75.25	"	
Pilot Rock.....	15	142	60.25	"	
Pendleton.....	16	158	44.25	"	
Centreville.....	22	180	22.25	"	
Weston.....	3.25	183.25	19	"	
Milton.....	9	192.25	10	"	
WALLA WALLA.....	10	202.25		1033.5	

NOTE.—Daily overland mail and stage route. Daily overland stage to Boise and Kelton leaves Umatilla and Pendleton. See Table XVII.

TABLE NO. XII.

Fort Walla Walla to Camp Chelan, W. T., (via Palouse Ferry and "Wild Goose Bill's").

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers. 1879.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
		From Walla Walla.		
FORT WALLA WALLA ..	.....	.....	229.54	1033 5 U. S. Military Station
Dry Creek	8.08	8.08	221.46	Wood, water and grass.
Touchet River	8.43	16.51	213.03	do do do.
Colville or Sheep Spring..	5.66	22.17	207.37	No wood; water scarce; grass plenty.
Snake River	16.49	38.66	190.88	No wood; water and grass plenty.
Washtucna Coolee (Bas-				
sett's)	14.12	52.78	176.76	Wood, water and grass.
Mullan Road	6.46	59.24	170.30	do do do.
Cow Creek	11.50	70.74	158.80	do do do.
Colville Road	4.09	74.83	154.71	{ Road to Colville and Spokane country branches.
Crab Creek (Willie's)....	14.48	89.31	140.23	Wood, water and grass.
Cold Spring	17.89	107.20	122.34	2350 do do do.
Lone Star Ranch or Mus-				
quito Springs	8.1	115.30	114.24	Water and grass; wood scarce.
Condon's Ranch (Wild				
Goose Bills)	22.5	137.80	91.74	2110 Wood, water and grass.
Orchard Spring	9.06	146.86	82.68	2165 do do do.
Morrel Spring	10.33	157.19	72.35	do do do.
Spring in Grand Coulee,				
near mouth	6.97	164.10	65.38	1425 do do do.
Cow Springs	9.86	174.02	55.52	2300 do do do.
Head of Foster Creek....	18.32	192.34	37.20	1790 do do do.
Forks of Road	13.5	205.84	23.70	do do do.
Eight-Mile Spring	8.5	214.34	15.20	do do do.
Top of Hill	8.2	222.54	7.00	3300 do do do.
Columbia River	5.5	228.04	1.5	825 do do do.
CAMP CHELAN	1.5*	229.54	.....	1100 do do do.

* Estimated.

TABLE NO. XIII.

Fort Cœur d'Alene, I. T., to Fort Walla Walla, W. T., (via Taxas Ferry and Waitsburg.)

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1879.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Cœur d'Alene.	From Fort Walla Walla.		
FORT CŒUR D'ALENE . . . . .	.....	166.31	2311	U. S. Military Station.
Cowley and Ford's Bridge	12.65	12.65	153.66	Store, etc., over Spokane River.
SPOKANE FALLS	16.48	29.13	137.78	2150
Forks of road	12.69	41.82	124.49	Left hand to Colfax, Lewiston, etc.
Sander's Ranch (Rock Creek)	12.91	54.73	111.58	2356
Pine Creek	11.85	66.58	99.73	Water, wood and forage.
Pleasant Valley	8.08	74.66	91.65	do do do
Palouse River	7.17	81.83	84.48	1916
Rebel Flat Creek	7.51	89.34	76.97	do do do
Union Flat	5.35	94.69	71.62	do do do
Willow Creek	10.35	105.04	61.27	Water and forage.
McManaman's Ranch	11.13	116.17	50.14	861
Texas Ferry (Snake Riv)	5.89	122.06	44.35	506
Tucannon River Bridge	7.42	129.48	36.83	Water, wood and forage.
Whetstone Flat	12.08	141.56	24.75	1451
Waitsburg	6.30	147.86	18.45	{ McCluny's ranch, water, wood and forage.
Dry Creek	11.00	158.86	7.45	{ Town on Touchet River, water, wood and forage.
FORT WALLA WALLA	7.45	166.31	.....	1033.5
				U. S. Military Station.

NOTE.—This is the shortest and best road from Walla Walla to Spokane Falls and Cœur d'Alene. There is a weekly mail over this route. See Tables VIII and IX for two other routes.

TABLE XIV.

Fort Walla Walla to Fort Colville, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers, from Captain Sladen's tables and
odometer measurements by Lieut.-Colonel Merriam, 2d Infantry.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
		From Fort Walla Walla.	From Fort Colville.	
FORT WALLA WALLA			204.04	1033 5
Dry Creek.....	7.5	7.5	196.54	Wood, water and grass.
Touchet River.....	11.5	19.0	185.04	do do do.
Sheep Spring.....	7	26.0	178.04	Spring up canyon, ½ mile to right; no wood.
Snake River (Palouse Ferry).....	16.22	42.22	161.82	Silcott & Lyon's Ferry.
Palouse Spring	13.75	55.97	148.07	Grass and water; wood scarce.
Cow Creek	10.5	66.47	137.57	Lucas' Ranch.
Alkali Lake	16	82.47	121.57	Grass and water; wood scarce.
Lugenbeel Creek.....	5	87.47	116.57	Wood, water and grass.
Kamiaken Spring	8.75	96.22	107.82	1925 Cummasky's Ranch near by; a good place for camp.
SPRAGUE	4.5	100.72	103.32	Road forks just beyond; keep to the right; left to Columbia River.
Mud Springs	7	107.72	96.32	Grass and water; wood scarce.
Rock Creek.....	3.22	110.94	93.10	Wood, water and grass.
Willow Spring	12	122.94	81.10	do do do.
Cooley Creek	11.5	134.44	69.60	} From odometer measurements by Lieut. Col. H. C. Merriam, 2d Infantry. Wood, water and grass.
Spokane River.....	8.8	143.24	60.80	
Haine's Ranch.....	6.9	150.14	53.90	
Sheep Creek.....	14.7	164.84	39.20	
Brown's Ranch (Fool's Prairie)	14.2	179.04	25.00	
FORT COLVILLE.....	25	204.04		2800

NOTE.—Just beyond Sheep Creek the road forks, both coming together again at "Brown's." The left-hand road is best and shortest, but is impassable during winter and spring. The right-hand road is very hilly, but otherwise good.

TABLE NO. XI.

Walla Walla to Camp Spokane, W. T.,

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
		From Walla Walla.			
WALLA WALLA .....	.....	.....	135.20	1033.5	
Dry Creek	8.08	8.08	127.12	.....	Odometry.
Touchet River	8.43	16.51	118.69	.....	"
Colville or Sheep Spring.	5.66	22.17	113.03	.....	"
Snake River.....	16.49	38.66	96.54	.....	" Palouse Ferry.
Washtucna Coolee	14.12	52.78	82.42	.....	"
Mullan Road.....	6.46	59.24	75.96	.....	"
Cow Creek.....	11.50	70.74	64.46	.....	"
Colville Road	4.09	74.83	60.37	.....	"
Crab Creek (Willie's).....	14.48	89.31	45.89	.....	"
Cold Spring	17.89	107.20	28.89	2350	"
Cottonwood Spring.....	8.00	115.20	20.00	2725	Estimated.
CAMP SPOKANE.....	20.00	135.20	.....	1615	"

TABLE NO. XVI.

Walla Walla to Yakima City, W. T.

Estimated by Lieutenant O. L. Hein, 1st Cavalry.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
		From Walla Walla.		
WALLA WALLA .....	.....	.....	130	1033 5
Touchet	17	17	113	.....
Columbia River (opposite Wallula).....	15	32	98	330
Mouth of Yakima River..	22	54	76	365
Lone Cottonwood (on Yakima River).....	30	84	46	.....
Satass Creek.....	20	104	26	.....
LaChapelle's Ferry.....	23	127	3	.....
YAKIMA	3	130	.....	.....

TABLE NO. XVII.

The Dalles, Oregon, to Walla Walla, W. T.

From Captain Sladen's tables, Hdqrs. Dept. Columbia, 1878, and P. O. Route Map.

LOCALITY.	Distances—Miles.			Altitude	Authority.	REMARKS.
		From The Dalles.	From Walla Walla.			
THE DALLES.....			184.25	179.8		Stage Road.
Price's.....	21	21.	163.25		Sladen.	" "
John Day's Bridge.....	21	42.	142.25		"	" "
Willow Creek.....	25	67.	117.25		"	" "
UMATILLA.....	34	101.	83.25		"	
Pendleton.....	39	140.	44.25		P. O. Map	
Centreville.....	22	162.	22.25		"	
Weston.....	3.25	165.25	19.		"	
Milton.....	9	174.25	10.		"	
WALLA WALLA.....	10	184.25		1033.5	"	

NOTE.—Daily overland stage to Boise and Kelton from Umatilla and Pendleton. See Table XI.

TABLE NO. XVIII.

The Dalles to Fort Harney, Oregon, (via Canyon City).

Compiled and adjusted by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			Altitude	Authority.	REMARKS.
		From The Dalles	From Fort Harney.			
THE DALLES.....	.....	.....	265.86	179.8		
Eight-Mile Creek.....	8.23	8.23	257.63	.....	Odometer.	Good water and grass.
Fifteen-Mile Creek.....	4.02	12.25	253.61	.....	"	do do do
Dry Creek.....	4	16.25	249.61	.....	Estimated.	do do do
Chicken Spring.....	7.75	24.00	241.86	.....	"	do do do
Warner's Ranch.....	2	26	239.86	.....	"	No wood.
Shearer's Bridge (Des Chutes River).....	4.05	30.05	235.81	702	"	Good water; feed can be bought.
Salt Spring.....	8.88	38.93	226.93	.....	Odometer	Good water; no wood.
Bake Oven.....	10.63	49.56	216.30	.....	"
Cross Hollows (Shernick- ons' store).....	8.00	57.56	208.30	3197	Time.	Good water; feed can be bought.
Antelope P. O. (creek) ..	7.00	64.56	201.30	2845	"	
Cold Spring.....	6.00	70.56	195.30	.....	"
Curran Creek (stage sta- tion).....	4.5	75.06	190.80	2142	"	Good water and grass
Cherry Creek.....	11.5	86.56	179.30	.....	"
Burnt Ranch (station)....	6.5	93.06	172.80	1561	"	
Bridge Creek P. O.....	6.3	99.36	166.50	.....	"	Good water; feed can be bought.
Alkali Flat (ranch).....	6.25	105.61	160.25	.....	"
Mountain House.....	14.00	119.61	146.25	.....	"	Good water and grass.
McNeal's Ranch.....	1.75	121.36	144.50	.....	"	do do do
OLD CAMP WATSON.....	5.5	126.86	139.00	.....	"	Stage station; water.
Rock Creek.....	6.00	132.86	133.00	.....		Good water.
Spanish Gulch.....	2.00	134.86	131.00	.....		Houses.
Birch Creek.....	7.00	141.86	124.00	.....		House; good water.
Battle Creek.....	8.00	149.86	116.0	.....		do do do
Dayville (south fork John Day).....	5.00	154.86	111.0	.....		Wood, water and grass.
County Bridge (John Day River).....	8.00	162.86	103.0	.....		do do do
Gunlap's Ranch.....	9.5	172.36	93.50	.....		do do do
Beach Creek.....	8.75	181.11	84.75	.....		do do do
John Day City.....	8.5	189.61	76.25	.....		Town on River.
CANYON CITY.....	3.25	192.86	73.00	.....		Town.
Crane Creek Bridge.....	14.5	207.36	58.50	.....		Wood, water and grass.
Bear Creek Bridge.....	10	217.36	48.50	.....		do do do
Soda Springs.....	4.5	221.86	44.0	.....		do do do
Cow Springs.....	4.00	225.86	40.0	.....	
Musquito Creek.....	6.00	231.86	34.0	.....	
Mountain Springs.....	7.00	238.86	27.0	.....		Good water, wood and grass.
French's saw-mill.....	15.00	253.86	12.0	.....	
FORT HARNEY.....	12.00	265.86	.....	4850		

NOTE—These distances are from field notes of Captain W. H. Winters, 1st Cavalry, in January, 1877, the distances being estimated, and from the time meanders of Lieutenants Wheeler and Symons, Corps of Engineers, in 1878, and from the Post Route Map of the Post Office Department for 1877.

TABLE NO. XIX.

The Dalles, Oregon, to Camp Bidwell, Cal., (via Prineville).

From measurements made by Lieut. T. W. Symons, Corps of Engineers, 1878.

LOCALITY.	Distances—Miles.			Altitude	Authority.	REMARKS.
		From The Dalles	From Camp Bidwell.			
THE DALLES.....	.....	.....	332.34	134.7	Odometer	Town on Columbia R.
Dufur (on 15-Mile Creek)	14.79	14.79	317.55	1266.7	"	} Settlement; forage
Tygh Valley.....	17.00	31.79	300.55	1088.8	Time.	} must be bought.
Oak Grove	15.76	47.55	284.79	2414.5	"	Small settlement; water, wood and grass.
Neenee Spring.....	6.25	53.80	278.54	2914.2	"	Good water and grass.
Warm Spring Agency....	20.45	74.25	258.09	1513.9	"	Wood scarce; grass on hills in vicinity.
Lodge Pole Creek.....	5.92	80.17	252.17	1648.3	Odometer	Good grass and water; wood scarce.
Willow Creek	20.72	100.89	231.45	3079.6	"	Water, wood and grass.
PRINEVILLE.....	21.12	121.91	210.43	2899	"	{ Large town; forage can be bought; wood and grass on hills in vicinity.
Green's Ranch.....	25.90	147.81	184.53	4479	"	Water, wood and grass.
Waterhole	12.80	160.61	171.73	.....	"	{ No wood; good grass; bad water, in deep hole.
Langton's Ranch.....	17.71	178.32	154.02	5162.9	"	Water scarce; wood and grass.
Button's Ranch (Christmas Lake).....	22.90	201.22	131.12	4236.7	"	{ No wood; good water; grass scarce; feed can be bought.
Durand's Ranch (Silver Lake)	19.90	221.12	111.22	4312	"	Forage must be bought.
Parton's Ranch (Summer Lake)	15.91	237.03	95.31	4497.6	"	Wood, water and grass.
Miller's Ranch (Summer Lake)	17.31	254.34	78.00	4420.3	"	do do do
Chewaucan	8.93	263.27	69.07	.....	"
Moss' Ranch	11.67	274.94	57.40	4827.8	"	Forage must be bought.
Saw-mill.....	9.52	284.46	47.88	.....	"	Grass and water on hills in vicinity.
LAKEVIEW.....	17.87	302.33	30.01	4851	"	{ Settlement. U. S. Land Office; water, wood and grass.
Cottonwood Creek.....	18.70	321.03	11.31	5228.9	"	Plenty of good water, wood and grass.
CAMP BIDWELL.....	11.31	332.34	.....	4647	"	Two company post....

NOTE—From The Dalles to Prineville a daily stage runs. From Prineville to Lakeview mail once a week, carried on horseback.

TABLE NO. XX.

Fort Klamath to The Dalles, Oregon.

From measurements by Lieuts. Wheeler and Symons, Corps of Engineers, 1878.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
		From Fort Klamath.			
FORT KLAMATH			266.51	4108.4	{ Two company post; water, wood and grass in vicinity.
Klamath Agency.....	6.1	6.1	260.41	.....
Williamson River.....	11.7	17.8	248.71	4387	{ Good water, wood and grass.
Big Springs.....	22.85	40.65	225.86	4552.5	
Corral Springs.....	21.64	62.29	204.22	4782.6	{ Good grazing, water and wood.
Little Meadows (on east fork of Des Chutes R.)	17.10	79.39	187.12	4258.2	
East fork of Des Chutes (near mouth Pauline Cr)	21.74	101.13	165.38	4081.1	{ Good grazing; wood and water off the road; near road fenced in.
Big Meadows.....	13.90	115.03	151.48	4123.7	
Farewell Bend.....	15.80	130.83	135.68	3620.9	{ Poor grazing and little wood; water good; forage can be bought.
Carmical's Ranch (on Crooked River)	25.84	156.67	109.84	2736.2	
Ranch.....	15.1	171.77	94.74	2443.4	{ Water, wood and grass. do do do.
Sheep Ranch	10.83	182.60	83.91	.....
Lodge Pole Creek.....	13.73	196.33	70.18	.....	{ Good water and grass; wood scarce.
Des Chutes Ferry	3.61	199.94	66.67	.....
Warm Spring Agency...	2.31	202.25	64.26	1513.9	{ Grass and wood scarce. Wood scarce; grass on hills in vicinity.
Neenee Spring.....	20.45	222.7	43.81	2914.2	
Oak Grove.....	6.25	228.95	37.56	2414.5	{ Small settlement; water, wood and grass. Settlement; forage must be bought.
Tygh Valley.....	15.76	234.71	21.80	1088.8	
Fifteen-Mile Creek.....	17	251.71	14.80	1266.7	{ Town on Columbia R.
THE DALLES.....	14.8	266.51	.....	134.7	

NOTE.—This is an excellent road, although very little traveled.

TABLE NO. XXI.

The Dalles, Oregon, to Tygh Valley, (via Miller's Bridge and Shearer's Bridge.)

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
		From The Dalles.	From Tygh Valley.		
THE DALLES.....	.....	.....	85.82	134.9	Large town on Columbia River.
Five-Mile House.....	6.55	6.55	77.27	.....	Junction of 8 and 5-mile Creeks; country rather barren; no wood.
Fifteen-Mile Creek.....	5.10	11.65	72.17	.....	Ranch; grass scarce; no wood.
Miller's Bridge (over Des Chutes Riv. near Celilo)	5.62	17.27	66.55	165.8	Ranch; no wood; grass scarce; forage for sale here.
Ranch.....	10.19	27.46	56.36	.....	Water; grass; wood very scarce.
Spring in ravine (near Grant's Landing).....	1.21	28.67	55.15	.....	Good water; grass and wood scarce.
Eaton Ranch P. O.....	8.8	37.47	47.35	.....	Good grazing and water; no wood.
Barnum's Ranch.....	11.32	48.79	36.03	1795.2	Grass Valley; no wood; good water and grass.
Shearer's Bridge.....	28.54	77.33	7.49	2006.9	No wood; grass scarce; forage can be purchased.
TYGH VALLEY.....	7.49	84.82	.....	1088.8	Settlement; forage must be purchased; some grazing on surrounding hills.

TABLE NO. XXII.

The Dalles to Lower Cascades, Oregon.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1878.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
		From The Dalles.	From Lower Cascades.		
THE DALLES.....	.....	.....	50.05	134 7	Large town.
Mosher Creek.....	13.01	13.01	37.04	.....	Water, wood and grass.
Huk's Ranch.....	5.70	18.71	31.34	.....	Grass scarce; water and wood; forage can be bought.
Hood River.....	4.39	23.10	26.95	260.0	Ranch; grass scarce; water and wood; forage can be bought.
Hood River P. O.....	.51	23.61	26.44	.....	Ranch.
Hotel.....	.6	24.21	25.84	.....	No grass; water and wood.
Upper Cascades.....	20.89	45.10	4.95	126.6	Good grass and wood.
LOWER CASCADES.....	4.95	50.05	.....	.....	Good grass and wood.

TABLE NO. XXIII.

Lewiston, I. T., to Spokane Falls, W. T.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1880.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Lewiston.	From Spokane Falls.		
LEWISTON	107.9	{ Fort Lapwai 12.6 miles from Lewiston.
Reddy's Ranch	5.1	5.1	102.8	
Uniontown	5.2	10.3	97.6	
Colton	3.1	13.4	94.5	
Leitchville	4.0	17.4	90.5	
Iren	7.3	24.7	83.2	
Ewartsville	11.5	36.2	71.7	
Colfax	9.2	45.4	62.5	
Steptoe (Davis')	14.7	60.1	47.8	
Rosalia	13.8	73.9	34.0	
Spangle	14.4	88.3	19.6	
SPOKANE FALLS	19.6	107.9	21.50	

NOTE.—The best road between Lewiston and Spokane Falls. Good accommodation for man and beast all along the road. See Table XXIV.

TABLE NO. XXIV.

Lewiston, I. T., to Spokane Falls, W. T., (via Palouse City).

From measurements by Lieut. T. W. Symons, Corps of Engineers, P. O. Route Map, and other sources.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
	From Lewiston.	From Spokane Falls.			
LEWISTON	108.3	1053	Odometer. " " " " " " Estimated. "	Left-hand road to Colfax { To Lincoln 9½ miles. { To Colfax 21½ miles.
Reddy's Ranch	5.2	5.2	103.1		
Forks of road	2.0	7.2	101.1		
Moscow	22.0	29.2	79.1		
PALOUSE CITY	15.0	44.2	64.1		
Cedar Creek	5.0	49.2	59.1		
Farmington	10.0	59.2	49.1		
Hangman's Creek	15.0	74.2	34.1		
Waverly	4.5	78.7	29.6		
Spangle	10.0	88.7	19.6		
Forks of road	7.4	96.1	12.2	Odometer. "	Old Mullan Road.
SPOKANE FALLS	12.2	108.3	21.50		

NOTE.—See Table XXIII.

TABLE NO. XXX.

Lewiston and Fort Lapwai to Camp Howard, I. T.

From odometer measurements made by Lieut. T. W. Symons, Corps of Engineers, 1880.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
		From Lewiston.	From Camp Howard.	
LEWISTON			67.8	1053
Fort Lapwai	12.6	12.6	55.2	1225
White's Ranch.	11.4	24.0	43.8	3350
Mason's Prairie	8.3	32.3	35.5	4300
Lawyer's Canyon	10.5	42.8	25.0	4100
Cottonwood.	8.0	50.8	17.0	3600
Grangeville	14.4	65.2	2.6	3550
CAMP HOWARD.	2.6	67.8	.. . .	4100
				Stage station. Hotel.
				Ranch abandoned.
				do do
				Stage station. Hotel.
				Town.
				One company post.

NOTE.--About $2\frac{1}{2}$ miles from Grangeville to Mount Idaho; about 3 miles from Camp Howard to Mount Idaho. Daily stage from Lewiston to Mount Idaho. From Fort Lapwai to Shissler's Ranch, $11\frac{1}{2}$ miles.

Shissler's Ranch is 3150 feet above sea level.

Lake Waha, 3560 do do.

Small Lake Waha, 3515 do do.

TABLE NO. XXVI.

Fort Lapwai, I. T., to Fort Colville, W. T.

By Lieut. R. H. Fletcher, 21st Infantry, and Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
		From Fort Lapwai.			
FORT LAPWAI.....			213.8		
Lewiston.....	12.6	12.6	201.2	1053	Odometer. } Fair road from Fort Lapwai to Pine Creek
Reddy's.....	5.2	17.8	196	2850	
Tiernan's.....	5	22.8	191		
Palouse Bridge.....	28	50.8	163		
Pine Creek (Campbell's).....	15	65.8	148		See Note. } Road good.
Hangman's Creek.....	15	80.8	133		
California Ranch.....	40	120.8	93		
Spokane River (Upper or Middle Bridge).....	10	130.8	83		
Little Spokane.....	18	148.8	65		{ Plain road after leaving Little Spokane.
Deserted Cabin.....	15	163.8	50		
Brown's (Colville Valley).....	25	188.8	25		
FORT COLVILLE.....	25	213.8		2800	

NOTE.—From Pine Creek to Hangman's Creek take a guide; roads and trails are numerous. Follow the left-hand broad trail on leaving Hangman's Creek. Ten miles of road over mountain not practicable for ambulances.

Wood, water and grass for whole distance. This route, for a greater part of the way, is only a trail, and although ambulances have gone over, it is very difficult for them to get through.

See Tables XXIII and XXIV.

TABLE NO. XXVII.

Fort Cœur d'Alene, I. T., to Camp Spokane, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
		From Cœur d'Alene.			
FORT CŒUR D'ALENE.....			88.89	2311	
Cowley's & Ford's Bridge.....	12.65	12.65	76.24		Odometer. } Over Spokane River.
Spokane Falls.....	16.48	29.13	59.76	2150	
Deep Creek Falls.....	15.68	44.81	44.03	2750	Settlement. Store, &c. } Grass and water, wood scarce.
Spring and Flat near head of Crab creek.....	11.50	56.31	32.58		
Cottonwood Spring.....	12.58	68.89	20.00	2725	Store and tavern.
CAMP SPOKANE.....	20.00	88.89		1615	

NOTE.—A cut-off can be made by leaving the old road (White Bluff's Road) about four or five miles east of Cottonwood Spring, and leaving this spring to the left; so I am informed by Colonel Mason and Captain Sladen.

TABLE NO. XXVIII.

Camp Chelan to Fort Cœur d'Alene.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1879.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.	
		From Camp Chelan.	From Cœur d'Alene.		
CAMP CHELAN.....	.....	.....	192.32	1100	Established in 1880.
Columbia River.....	1.5	1.5	190.82	825	Crossing by small boats.
Top of Hill.....	5.5	7.0	185.32	3300	
Eight-Mile Springs.....	8.2	15.2	177.12	.....	Wood, water and grass
Forks of Road.....	8.5	23.7	168.62	.....	{ Left fork goes to old winter camp, mouth of Foster Creek.
Head of Foster Creek....	13.5	37.2	155.12	1790	Water, wood and grass.
Cow Springs.....	18.32	55.52	136.80	2300	do do do.
Spring in Grand Coulee (near mouth).....	9.86	65.38	126.94	1425	{ Steep hills up and down into cou- lee; water, wood and grass.
Morrel Springs.....	6.97	72.35	119.97	.....	Water, wood and grass.
Orchard Springs.....	10.33	82.68	109.64	2165	Water and grass; no wood.
Condon's Ranch (Wild Goose Bill's).....	9.06	91.74	100.58	2110	Water, wood and forage.
Mosquito Spring or Lone Star Ranch.....	22.5	114.24	78.08	.....	Water and grass; wood scarce.
Forks of Road.....	2.46	116.70	75.62	.....	Right-hand road to Walla Walla.
White Bluffs' Road.....	1.61	118.31	74.01	.....
Cottonwood Springs (head of Hawk Creek).....	5.12	123.43	68.89	2725	Store; water, wood and grass.
Spring and flat near head of Crab Creek.....	12.58	136.01	56.31	.....	Water, wood and grass.
Colville Road.....	8.8	144.81	47.51	.....
Deep Creek Falls (cross- ing).....	2.7	147.51	44.81	2750	{ Blacksmith shop; wood, water and grass.
SPOKANE FALLS.....	15.68	163.19	29.13	2150	
Cowley & Ford's Bridge.	16.48	179.67	12.65	.....	Store, &c.
FORT CŒUR D'ALENE ..	12.65	192.32	.....	2311	U. S. military station.

NOTE.—Camp Chelan abandoned as a military post in 1880; troops removed to Camp Spokane.

TABLE NO. XXXIX.

Fort Cœur d'Alene, I. T., to Helena, M. T., (via Fort Missoula, M. T.).

Compiled and adjusted by Lieut. T. W. Symons, Corps of Engineers, from report of Col. O. M. Poe, Corps of Engineers, accompanying General Sherman on his tour of inspection in 1877.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
		From Cœur d'Alene.	From Helena.		
FORT CŒUR D'ALENE.....	.....	.....	318	2311	
Wolf Lodge Creek	11	11	307	.....
Cœur d'Alene Mission ..	18	29	289	.....
Mud Prairie	10	39	279	.....
Sherman's camp, September 9, 1877.....	12	51	267	.....
Sherman's camp, September 8, 1877.....	11	62	256	.....
Sohon's Pass.....	5	67	251	.....	Summit of Cœur d'Alene Mountains
Packer's Ranch.....	12	79	239	.....
Crow's Nest.....	5	84	234	.....
Ferry over Bitter Root River	20	104	214	.....
Halpine's Ranch.....	8	112	206	.....
Berry's Ranch.....	7	119	199	.....
Lissian's Ranch.....	5	124	194	.....
Spring	14	138	180	.....
Point of Rocks.....	6	144	174	.....
Shaeffer's Ranch (6-mile creek)	16	160	158	.....
Frenchtown	6	166	152	.....
Missoula	17	183	135	.....
FORT MISSOULA	4	187	131	.....
Missoula	4	191	127	.....	The total distance is shortened 8 miles by not going to Fort Missoula, which lies four (4) miles from the road.
Big Blackfoot River.....	6	197	121	.....
Beaver dam (on Butte Creek)	18	215	103	.....
Whitesides	11	226	92	.....
New Chicago	14	240	78	.....
Bridge over Hell Gate Riv	8	248	70	.....
Cedar Hill	14	262	56	.....
Deer Lodge	11	273	45	.....
Dead Dog Creek.....	10	283	35	.....
Frenchwoman's Ranch ..	13	296	22	.....
HELENA, MT.	22	318	.....	.....

NOTE.—“The Mullan Road.” A military telegraph line has been built along this road.

TABLE NO. XXX.

Camp Chelan to Ritzville, W. T., on N. P. R. R.

Road surveyed and marked by Lieut. T. W. Symons, Corps of Engineers, 1880—Odometer measurements.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
		From Camp Chelan.	From Ritzville.		
CAMP CHELAN.....	.....	.....	107.5	1100	
Columbia river crossing .	1.5	1.5	106.0	825	Crossing in small boats.
Myrtle spring.....	3.6	5.1	102.4	2050	Wood, water and grass.
Moses' Coulee.....	20.8	25.9	81.6	2012	do do do.
Grand Coulee.....	20.2	46.1	61.4	1815	do do do.
Wilson creek.....	14.9	61.0	46.5	1800	do do do.
Kenewaw run.....	7.1	68.1	39.4	1900	do do do.
Howard spring (Marlin Hollow).....	5.0	73.1	34.4	1925	do do do.
Lake creek crossing....	4.9	78.0	29.5	1800	Bad camping place.
Crab creek, Clover patch crossing.....	7.0	85.0	22.5	1550	Water and grass; no wood.
Duke spring.....	5.7	90.7	16.8	1865	Wood, water and grass.
RITZVILLE.....	16.8	107.5	.....	1800	On line of N. P. R. R.

TABLE NO. XXXI.

Ainsworth to Camp Chelan, W. T., (via White Bluffs Landing.)

From odometer measurements by Lieut. Col. H. C. Merriam, 2d Infantry, and Lieut. T. W. Symons, Corps of Engineers, 1879-80.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Ainsworth.	From Camp Chelan.		
AINSWORTH .....	.....	156.9	350	Mouth of Snake river.
Mouth of Yakima river. . .	9.0	9.0	147.9	Water and wood all along the way. Grass in spring and early summer; in the late summer and fall there is none.
Splawn's corral	9.4	18.4	138.5	
Kuntz' ranch	12.7	31.1	125.8	
Perkins' ranch	5.2	36.3	120.6	
White Bluffs landing. . . .	9.9	46.2	110.7	400
Lower ford of Crab creek. .	14.3	60.5	96.4	1100
Second ford of Crab creek. .	10.5	71.0	85.9	1150
Forks of White Bluffs road to Spokane Falls	4.0	75.0	81.9	{ 26 miles to water, Black Rock spring.
Arm of Moses' lake.	6.8	81.8	77.1	
Rocky ford of Crab creek . .	12.3	94.1	62.8	1300
Topeta creek	11.5	105.6	51.3	2300
Wittmann spring	7.1	112.7	44.2	2500
Moses' Coulee (Merriam spring)	10.1	122.8	34.1	2000
Columbia river crossing. . .	32.6	155.4	1.5	825
LAKE CHELAN	1.5	156.9	1100	Opposite Lake Chelan.

NOTE.—Camp Chelan was abandoned as a military post in 1880.

TABLE NO. XXXII.

Camp Chelan to Camp Spokane, W. T., (via Cottonwood Springs).

From odometer measurements by Lieut.-Colonel H. C. Merriam, 2d Infantry, and Lieut. T. W. Symons, Corps of Engineers, in 1879-80.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.	
		From Camp Chelan.	From Camp Spokane.		
CAMP CHELAN.....	.....	.....	143.43	1100	Abandoned as a military post in 1880.
Columbia river.....	1.5	1.5	141.93	825	Crossing by small boats.
Top of hill	5.5	7	136.43	3300	
Eight-Mile springs.....	8.2	15.2	128.23	.....	Wood, water and grass.
Forks of road.....	8.5	23.7	119.73	.....	{ Left fork goes to old winter camp, mouth of Foster creek.
Head of Foster creek....	13.5	37.2	106.23	1790	Wood, water and grass.
Cow spring.....	18.32	55.52	87.91	2300	do do do.
Grand Coulee springs....	9.86	65.38	78.05	1425	do do do.
Morrel springs.....	6.97	72.35	71.08	.....	do do do.
Orchard springs.....	10.33	82.68	60.75	2165	Little wood and water; plenty grass.
Condon's (Wild Goose Bill's)	9.06	91.74	51.69	2110	Wood, water and grass.
Mosquito spring or Lone Star ranch	22.5	114.24	29.19	.....	do do do.
Forks of road	2.46	116.70	26.73	.....	Right-hand fork to Walla Walla.
White Bluffs road.....	1.61	118.31	25.12	.....
Cottonwood springs (head of Hawk creek)	5.12	123.43	20.00	2725	Wood, water and grass.
CAMP SPOKANE.....	20.00	143.43	.....	1615	Distance estimated.

NOTE.—The road via "Virginia Bill's" is 40 miles shorter. It will leave the above road about half way between Wild Goose Bill's and Lone Star ranch.

TABLE NO. XXXIII.

Ainsworth, to Camp Spokane, W. T., (via N. P. R. R. to Sprague).

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
		From Ainsworth.	From Camp Spokane.		
AINSWORTH			166.22	350	
Summit Esquaitzel and Providence Coulees....	59	59	107.22	R. R. meas.	By rail.
Ritzville	26	85	81.22	1805	do.
Foot Colville lake.....	15	100	66.22	1910	do.
SPRAGUE	8	108	58.22		do. to Spokane Falls,
Mud springs.....	7	115	51.22		42 miles.
Rock creek (east fork of Crab creek?).....	3.22	118.22	48	Odometer.	Wagon road.
North fork of Crab creek	10	128.22	38	do.	do.
Cold spring	10	138.22	28	Estimated.	do.
Cottonwood spring.....	8	146.22	20	do.	do.
CAMP SPOKANE.....	20	166.22	1615	do.	do.

NOTE.—The distance from Sprague to Camp Spokane will be much shortened when a direct road is laid out joining the two points.

TABLE NO. XXXIV.

Fort Colville to Camp Spokane, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
		From Fort Colville.	From Camp Spokane.		
FORT COLVILLE.....			100.8	2800	
Brown's ranch (Fool's Prairie)	25.0	25.0	75.8	Odometer	
Sheep creek	14.2	39.2	61.6	do.	
Haines' ranch	14.7	53.9	46.9	do.	
Spokane river	6.9	60.8	40.0	do.	Bridge.
Cottonwood springs.....	20.0	80.8	20.0	Estimated.	
CAMP SPOKANE.....	20.0	100.8	1615	do.	

NOTE.—The distance from Fort Colville to Camp Spokane by the Columbia River trail is about 80 miles.

TABLE NO. XXXI.

Roseburg, Oregon, to Redding, California.

From the time and distance table of the Oregon and California Stage Company. Daily Stage Line. Compiled by Lient. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			REMARKS.
		From Roseburg.	From Redding.	
ROSEBURG			275	
Oak Grove	14	14	261	
Canyonville	13	27	248	
Levens'	12	39	236	
Grave creek	15	54	221	
Grant's Pass	15	69	206	
Rock Point	15	84	191	
Jacksonville	14	98	177	{ Stage connections fot Kerby, Waldo, and Crescent City.
Amerman's	10	108	167	
Ashland	7	115	160	Stage leaves for Linkville and Klamath.
Casey's	7	122	153	
Cole's	13	135	140	
Klamath ferry, Cal.	11	146	129	
Yreka	14	160	115	
Starveout	12	172	103	
Butteville	13	185	90	
Strawberry valley	13	198	77	
Soda Springs	8	206	69	
Castle Rock	4	210	65	
Southern's	11	221	54	
Slate creek	10	231	44	
Sacramento ferry	12	243	32	
Allen's	10	253	22	
Bass	10	263	12	
REDDING	12	275		

TABLE NO. XXXVII.

Roseburg to Fort Klamath, Oregon.

From distances given by Captain Sladen, Oregon and California Stage Company, Linkville Stage Company, P. O. Route Map, Captain Ferree, and measurements by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
	From Roseburg.	From Fort Klamath.	
ROSEBURG .....	...	214	
Round prairie.....	9	9	205
Myrtle creek.....	9	18	196
North Canyonville.....	9	27	187
Galesville	14	41	173
Leland	13	54	160
Lucky Queen	5	59	155
Grant's Pass.....	10	69	145
Woodville	10	79	135
Rock Point	5	84	130
Willow springs.....	7	91	123
Jacksonville	7	98	116
Phœnix.....	9	107	107
Ashland	8	115	99
Soda springs.....	10	125	89
Pioneer	14	139	75
Merganser.....	37	176	38
Linkville.....	3	179	35
Ferree's	12	191	23
Klamath Agency.....	17	208	6
FORT KLAMATH	6	214	...

Town.
Town.
Toll road. Stage station.
Grave creek. Stage station.
Jump-off-Joe creek.
Store, etc.
do.
Town.
Store, etc.
{ Town. Stage connections for Kerby,
{ Waldo, and Crescent City.
Town.
{ Town. Leave overland stage of C. & O.
{ Stage Company, and take branch line for
{ Linkville.
U. S. military post.

NOTE.—Daily stage and mail over this route.

TABLE NO. XXXVII.

Prineville to Eugene City, Oregon.

Compiled by Lieut. T. W. Symons, Corps of Engineers, from P. O. Route Map.

LOCALITY.	Distances—Miles.			Altitude	REMARKS.
		From Prineville.	From Eu- gene City.		
PRINEVILLE.....			145.5	2899	
Camp Polk	40	40	105.5		
McKinsie's bridge.....	50	90	55.5	2563	Over Des Chutes River.
Gate City.....	21	111	34.5		
Leaburg	9.5	120.5	25.0		
Walterville.....	8	128.5	17.0		
Thurston	3	131.5	14.0		
Springfield.....	10	141.5	4.0		
EUGENE CITY.....	4	145.5			

NOTE.—Mail over this route three times a week.

TABLE NO. XXXVIII.

Jacksonville, Oregon, to Camp Gaston, California.

Estimated by Major H. R. Mizner, 12th Infantry, from Captain Lydecker's Tables, Headquarters Military Division of the Pacific, 1873.

LOCALITY.	Distances—Miles.			Altitude.	REMARKS.
		From Jacksonville.	From Camp Gaston.		
JACKSONVILLE, OREGON.....			201		
Kerby.....	54	54	147		Stage road.
Waldo	12	66	135		do.
Crescent City, California.....	50	116	85		Toll road.
Mouth of Klamath river..	25	141	60		By coast trail.
CAMP GASTON.....	60	201		397	No details of route furnished.

NOTE.—Mail twice a week from Jacksonville to Crescent City.

TABLE NO. XXXIX.

Port Townsend to Neah Bay.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.			REMARKS.
		From Port Townsend.	From Neah Bay.	
PORT TOWNSEND.....	.....	.....	100	By steamer.
New Dungeness.....	25	25	75	do.
Port Angeles.....	15	40	60	do.
Crescent Bay.....	20	60	40	do.
Pysht.....	20	80	20	do.
Hoko.....	8	88	12	do.
NEAH BAY.....	12	100	.....	do.

NOTE.—Mail over this route once a week.

TABLE NO. XL.

Seattle to Skagit Gold Mines.

Compiled from information gathered by Lieut. T. W. Symons, Corps of Engineers, 1880.

LOCALITY.	Distances—Miles.			REMARKS.
		From Seattle.	From Skagit Gold Mines.	
SEATTLE.....	.....	.....	155	
Mukilteo.....	28	28	127	Steamer.
Tulalip.....	9	37	118	do.
Stanwood.....	15	52	103	do.
Skagit City.....	11	63	92	do.
Mount Vernon.....	4	67	88	do.
Sterling.....	10	77	78	Steamer or canoes.
Coal Mines.....	15	92	63	do do.
Baker river.....	14	106	49	do do.
Sauk river.....	8	114	41	do do. See Note.
Cascades river.....	8	122	33	do do. See Note.
Portage City.....	7	129	26	do do.
Goodell's.....	8	137	18	Trail.
GOLD MINES.....	18	155	.....	do.

NOTE.—At Sauk river a trail leaves for the Columbia via the Wenatche river, and at Cascades river for Lake Chelan, and the Columbia, via the Methow river. During high and medium water-stages, steamers can go about to Portage City. During low water they can go generally to Sterling. All traveling along the river is by water, as no roads or trails exist along the river where it can be navigated by canoes.

TABLE NO. XLI.

Port Townsend to Whatcom and Seemiahmoo.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
		From Port Townsend.	From Seemiahmoo
PORT TOWNSEND			148
San Juan	33	33	115
Lopez Island	8	41	107
Friday Harbor	5	46	102
Orcas Island	8	54	94
East Sound	11	65	83
Cypress	14	79	69
Gueme	9	88	60
Anacortes	6	94	54
Samish	7	101	47
WHATCOM	12	113	35
SEEMIAHMOO	35	148	...

NOTE.—Steamer and mail over this route once a week.

TABLE NO. XLII.

Olympia to Chehalis Point, W. T.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
		From Olympia.	From Chehalis Point.
OLYMPIA			83
Kamilch	18	18	65
Summit	9	27	56
Elma	8	35	48
Satsop	6	41	42
Montesano	6	47	36
Hoquiam	20	67	16
PATTERSON OR CHEHALIS POINT	16	83	...

NOTE.—Mail over this route once a week.

TABLE NO. XLIII.

Boise City, I. T. to Winnemucca, Nevada. (Owyhee Road)

Furnished by W. B. Morris, Supt. N. W. Stage Co. From Captain Sladen's Tables.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
		From Boise City.	From Winnemucca	
BOISE CITY, IDAHO.....	--	...	270	2815
Ricord's	15	15	255	.....
Snake river	15	30	240	.....
Gardner's	15	45	225	.....
Babington's	6	51	219	.....
Silver City	9	60	210	.....
Wagontown	10	70	200	.....
Trout creek	8	78	192	.....
Co. ranch	13	91	179	.....
Inskipp's	12	103	167	.....
Sheep ranch	12	115	155	.....
Owyhee river	6	121	149	.....
Dry creek	13	134	136	.....
Rattlesnake	11	145	125	.....
Battle creek	11	156	114	.....
Summit	10	166	104	.....
Ten-Mile creek	16	182	88	.....
CAMP McDERMIT, NEV..	10	192	78	.....
Canyon creek	13	205	65	.....
Rebel creek	15	220	50	.....
Cane springs	14	234	36	.....
Paradise	14	248	22	.....
Toll House	10	258	12	.....
WINNEMUCCA	12	270	...	4355

NOTE.—The above are the measurements of the Northwestern Stage Company. They do not agree with the estimates of Captain Downey in Table XLVI.

TABLE NO. XLIV.

Boise City to Fort Hall, I. T.

Estimated by Lieut. L. Hammond, 23d Infantry, from Captain Lydecker's Tables, Headquarters Military Division of the Pacific, 1873.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
		From Boise City.		
BOISE CITY.....			312	2872
Black's station.....	18	18	294	
Indian creek.....	10	28	284	
Junction house.....	8	36	276	
Canyon creek.....	10	46	266	
Rattlesnake creek.....	12	58	254	
Cold spring.....	12	70	242	
King hill.....	12	82	230	
Clover spring.....	12	94	218	
Malade river.....	15	109	203	
Snake river.....	26	135	177	
Desert station.....	14	149	163	
Rock creek.....	14	163	149	
Marsh creek.....	18	181	131	
Goose creek.....	10	191	121	
Marsh lake.....	12	203	109	
Raft river.....	35	238	74	
Fall creek.....	12	250	62	
American falls.....	25	275	37	
Bannock creek.....	10	285	27	
Ross fork.....	15	300	12	
FORT HALL.....	12	312		4752

NOTE.—Practicable for heavy teams from July 1st to December.

TABLE NO. XLV.

Boise City to Banner City, I. T.

From information furnished by Lieut. F. J. Patten, 21st Infantry.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
	From Boise City.	From Banner City.		
BOISE CITY.....			63	2812
Idaho City.....	35	35	28	
BANNER CITY.....	28	63		
The Post Office Official Map gives the same distances as follows:				
BOISE CITY.....			44	
Idaho City.....	24	24	20	
BANNER CITY.....	20	44		

NOTE.—Stage road. Wagon road terminates at Banner City.

TABLE NO. XLVI.

Boise City, I. T., to Fort McDermit, Nevada.

Estimated by Captain G. M. Downey, 21st Infantry, from Captain Sladen's Tables.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
	From Boise City.	From Camp McDermit.		
BOISE CITY, I. T.....		191	2812	
Snake river crossing.....	30	161		
Gardner's ranch (Reynold's creek).....	15	146		
Booneville (Jordan creek).....	16	130		
Trout creek.....	15	115		
Inskipp's ranch (Cow creek, Oregon).....	20	95		
Owyhee ferry.....	24	71		
Rattlesnake creek.....	24	47		
Summit springs.....	21	26		
Ten-Mile creek.....	16	10		
CAMP MCDERMIT, NEV.....	10	191	4700	

Water good and abundant, except at Rattlesnake creek, where it is alkaline. Grass plenty. Sage brush fuel.

TABLE NO. XLVII.

Camp Harney, Oregon, to Boise City, I. T. (via Malheur Indian Agency and Farewell Bend, Snake River.)

From odometer measurements by Major R. H. Towler, Paymaster, U. S. A., and Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.		REMARKS.
	From Camp Harney.	From Boise City.	
CAMP HARNEY, OREGON.....	.....	202.70	Altitude 4850.
Cow creek.....	6.80	6.80	195.90
Rock creek.....	5.50	12.30	190.40
Pine creek.....	19.16	31.46	171.24
Malheur river (middle fork).....	2.09	33.55	169.15
			Road forks just beyond, the left-hand fork leading to crossing of the north fork, and Canyon City and Boise Stage Road.
Malheur Indian Agency..	16.39	49.94	152.76
Parrish's spring.....	5.12	55.06	147.64
Camp Misfortune.....	6.24	61.30	141.40
			Road bad for ten miles.
Hole in the Ground.....	13.42	74.72	127.98
Junction with Canyon City and Boise Stage Road.....	7.07	81.79	120.91
Junction with road to El Dorado.....	7.46	89.25	113.45
McDowell's ranch.....	13.80	103.05	99.65
			Road forks; left-hand road to Boise via Farewell Bend; right-hand to Boise via Stone House.
Farewell Bend (Snake R)	19.00	122.05	80.65
			Washoe ferry; crossing of Umatilla and Kelton Stage Road.
Three Brothers.....	18.13	140.18	62.52
Emory's ranch.....	14.12	154.30	48.40
Willow creek.....	28.40	182.70	20.00
BOISE CITY, I. T.....	20.00	202.70	.....
			Altitude 2812.

NOTE.—Camp Harney abandoned as a military post in compliance with Special Order No. 77, dated Headquarters Department of the Columbia, May 5, 1880. See following table.

TABLE NO. XLVIII.

Camp Harney, Oregon, to Boise City, I. T. (via Canyon City, Stone House and Old Fort Boise Ferry.)

Estimated by Captain G. M. Downey, 21st Infantry, from Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.			REMARKS.
		From Camp Harney.	From Boise City.	
CAMP HARNEY, OREGON			248	Altitude 4850.
Rubies' saw-mill.	12	12	236	
Mountain springs	16	28	220	
Soda springs.	15	43	205	
Canyon City	28	71	177	
Warm springs	24	95	153	Head of John Day valley.
Summit prairie	13	108	140	Road forks just beyond; right-hand road to Winnemucca, Nevada.
Little Malheur river	25	113	115	
Junction with Malheur				7 miles beyond, road to left leads to El Dorado.
Indian Agency road.	23	156	92	
McDowell's ranch	22	178	70	Road forks; left-hand road to Boise via Farewell Bend.
Malheur river	17	185	63	
Old Fort Boise ferry.	16	201	47	Snake river crossing.
Middleton.	25	226	22	
BOISE CITY, I. T.	22	248		Altitude 2812.

NOTE.—Road good, and is practicable for wagons from June 1st to December 1st. Wood, water, and grass all the way. Camp Harney abandoned as a military post in compliance with Special Order No. 77, dated Headquarters Department of the Columbia, May 5, 1880. See preceding table.

TABLE NO. XLIX.

Camp Harney, Oregon, to Boise City, I. T.

From odometer measurements by Major R. H. Towler, Paymaster, U. S. A., and Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
		From Camp Harney.	From Boise City.	
CAMP HARNEY, OREGON.....			183.05	4850
McDowell's ranch	103.05	103.05	80	
Stone House (Malheur R)	17	120.05	63	
Old Fort Boise ferry	16	136.05	47	Snake river.
Middleton	25	161.05	22	
BOISE CITY, IDAHO.....	22	183.05		2812

NOTE.—Wood, water, and grass all the way. See Table XLVIII, which does not agree with this, but is believed to be more correct. Camp Harney abandoned as a military post in 1880.

TABLE NO. L.

Camp Harney to Camp Warner, Oregon.

Estimated by Captain G. M. Randall, 23d Infantry.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
		From Camp Harney.	From Camp Warner.	
CAMP HARNEY, OREGON.....			145	4850
Fork of Silvie's river	15	15	130	Water, wood, and grass plenty.
Warm springs	30	45	100	do do do.
Buzzard canyon.....	15	60	85	Water, wood, and grass scarce.
Mule spring	28	88	57	4738 Wood and grass plenty; water scarce
Warner lake	12	100	45	Wood and grass scarce; water bad.
Lost camp.....	20	120	25	Wood and grass scarce; water plenty.
Jones' ranch.....	10	130	15	4466 Wood, water, and grass plenty.
CAMP WARNER.....	15	145		5730

NOTE.—Road practicable from June 1st to January 1st. Camp Warner was abandoned as a military post in 1875, and Camp Harney in 1880.

TABLE NO. LI.

Camp Harney, Oregon, to Camp McDermit, Nevada.

From Captain Lydecker's Tables, Headquarters Military Division of the Pacific, 1873.

LOCALITY.	Distances—Miles.		Authority.	REMARKS.
	From Camp Harney.	From Camp McDermit.		
CAMP HARNEY, OREGON	177.67		Altitude 4850.
Crow camp	18	18	Estimated.	
Crow (Crane?) creek	12	30	"	Road fair and practicable for wagons from June 1 to February 1st. Wood, water, and grass plenty, except at Summit springs, where wood is scarce, and Alvord creek, where grass is scarce.
South fork Malheur river	5	35	"	
Branch of Malheur river	15	50	"	
Summit springs	11	61	"	
Willow's First creek	20	81	"	
Third creek	4	85	"	
Alvord creek	20	105	"	Road good; wood, water, and grass plenty.
Camp C. F. Smith	25	130	"	
Forks of road	4.25	134.25	Odometer	
McElroy creek	6.42	140.67	"	
Wood ranch	12	152.67	"	
Ten-mile creek	15	167.67	"	
CAMP McDERMIT, NEV.	10	177.67	"	Altitude 4700.

NOTE.—Of the above distances those from Camp Harney to Camp C. F. Smith are estimated by Captain G. M. Randall, 23d Infantry, and those from Camp C. F. Smith to Camp McDermit are measured by Major H. M. Robert, Corps of Engineers. Camp C. F. Smith was abandoned as a military post in 1869, and Camp Harney in 1880.

TABLE NO. LII.

Camp Harney, Oregon, to Camp Three Forks, Idaho.

Estimated by Captain G. M. Randall, 23d Infantry.

LOCALITY.	Distances—Miles.		REMARKS.
	From Camp Harney.	From Camp Three Forks.	
CAMP HARNEY, OREGON	248	Altitude 4850.
Camp C. F. Smith	130	118	
Crooked creek	20	98	Fair road; wood, water, and grass plenty all along the route.
Owyhee ferry	30	68	
Inskipp's ranch	24	44	
Farnham's ranch	28	16	
CAMP THREE FORKS, I. T.	16	248	

NOTE.—Road practicable for wagons from June 1st to February 1st. Camp C. F. Smith was abandoned as a military post in 1869, Camp Three Forks in 1870, and Camp Harney in 1880.

TABLE NO. LIII.

Camp Bidwell, California, to Camp Harney, Oregon.

Estimated by Captain Max Wesendorff, 1st Cavalry, from Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.		REMARKS.
		From Camp Bidwell.	From Camp Harney.
CAMP BIDWELL, CAL. ....	...	...	186
Twenty-mile creek, Or ..	20	20	166
Deep creek	14	34	152
Jones' ranch	14	48	138
Mule springs	45	93	93
Buzzard canyon	30	123	63
Silvie's river	45	168	18
CAMP HARNEY, OREGON	18	186	...

NOTE.—See Table LIV for itinerary of this route adapted to marches of foot troops. Camp Harney was abandoned as a military post in 1880.

TABLE NO. LIV.

Camp Harney, Oregon, to Camp Bidwell, California.

Estimated by Captain Max Wesendorff, 1st Cavalry, from Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.			REMARKS.
		From Camp Harney.	From Camp Bidwell.	
CAMP HARNEY, OREGON	...	.....	181	Altitude 4850.
Silvie's river.	16	16	165	Good level road; heavy in rainy seasons; water and grass good; willow fuel.
Warm springs.	25	41	140	Good road; heavy in places; willow fuel; water and grass good.
Buzzard canyon.	18	59	122	Heavy hills on this road; water and grass good; sage brush fuel.
Mule springs.	25	84	97	Road good; some hills; good grass and water; sage brush fuel.
Water holes.	22	106	75	Good road; bad water; good grass; sage brush fuel.
Jones' ranch.	25	131	50	Altitude 4466. Good level road; water and grass good; willow fuel.
Deep creek.	15	146	35	Good road; willow fuel; water and grass good.
Twenty-mile creek.	15	161	20	Road hilly; willow fuel; water and grass good.
Twelve-mile creek.	8	169	12	Road hilly; good water and grass; willow fuel.
CAMP BIDWELL, CAL.	12	181	.....	Altitude 4647. Good road.

TABLE NO. LV.

Camp Warner, Oregon, to Camp Bidwell, California.

Measured with odometer by Captain H. M. Roberts, Corps of Engineers, from Captain Sladen's Tables, Headquarters Department of the Columbia, 1878.

LOCALITY.	Distances—Miles.			REMARKS.
		From Camp Warner.	From Camp Bidwell.	
CAMP WARNER, OREGON. ....	.....	.....	66.15	Altitude 5730.3 Abandoned as a military post in 1874.
Honey creek.	8.25	8.25	57.90	
Eschenberg's spring.	11.25	19.50	46.65	
Warm spring.	10.50	30.00	36.15	
Sherman's bridge (Deep creek)	3.70	33.70	32.45	
Creek.	10.75	44.45	21.70	
Creek.	5.50	49.95	16.20	
Creek.	2.20	52.15	14.00	
Summit of hill.	4.50	56.65	9.50	
Annie lake.	5.00	61.65	4.50	
CAMP BIDWELL, CAL.	4.50	66.15	.....	Altitude 4647.

NOTE.—On this road wagons can come to about 20 miles from Bidwell, between the middle of November and the 1st of May; pack trains must be used the rest of the way. The summer road is about 45 miles long, and leaves the winter road, (*i. e.*, going north) about 18 miles from Camp Bidwell.

TABLE NO. LII.

Fort Bidwell, California, to Reno, Nevada.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1877-8.

LOCALITY.	Distances—Miles.		Altitude	REMARKS.
		From Fort Bidwell.	From Reno.	
FORT BIDWELL, CAL.	.....	.....	190.42	4647 Two company post. Town.
Lake city	16.32	16.32	174.10	4623 Small town.
Cedarville	8.65	24.97	165.45	4674 do.
Eagleville	15.90	40.87	149.55	4632 Post office on Eagle creek.
Bare's ranch	11.72	52.59	137.83	4679 South end of Surprise valley; on Silver creek.
Forks of road	8.42	61.01	129.41	..... Road to Tulead and Cold Spring.
Clark's ranch, Nevada	2.87	63.88	126.54	4677 Good water and feed.
Spring	16.04	79.92	110.50	..... Water and grass.
Buffalo station	13.06	92.98	97.44	..... do do.
Buffalo Salt works (Murphy's)	14.73	107.71	82.71	..... Very bad water; to Deep hole 22.94 miles.
Sheep head	7.56	115.27	75.15	..... Good water; forage can be bought.
Fish spring	27.55	142.82	47.60	4041 do do do.
Newcomb's ranch	9.98	152.80	37.62	..... do do do.
Giles & Bickford's ranch	2.15	154.95	37.47	..... Good water.
Winter's ranch	.80	155.75	34.67	..... Good water and grass.
Tule Frank's ranch	1.57	157.33	33.10	..... Good water; forage can be bought.
Chapman's ranch	.70	158.02	32.40	..... do do do.
Warm spring	8.68	166.70	23.72	..... Good water and grass.
Junction House	6.03	172.73	17.68	..... Good water; forage can be bought.
Deep wells	4.92	177.65	12.77	..... do do do.
Forks of road near quartz mill	10.84	188.49	1.93	..... North edge Truckee meadows.
RENO, NEVADA.	1.93	190.42	.....	4484.2 Station on C. P. and V. & T. R. R.

NOTE.—The distance from Deep wells to Reno here given is via the new road. By the road traveled generally, the distance is 2 63-100ths miles greater. Stage over this route three times a week.

TABLE NO. LVII.

Fort Klamath, Oregon, to Fort Bidwell, California.

Compiled and adjusted by Lieut. T. W. Symons, Corps of Engineers, from odometer measurements by Lieuts. G. M. Wheeler and T. W. Symons, Corps of Engineers, and Lieut. W. Wittich, 21st Infantry, 1877-8.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
		From Fort Klamath.	From Fort Bidwell.	
FORT KLAMATH, OREGON .....	.....	.....	156.87	4108.4
Klamath Indian Agency. 6.10	6.10	6.10	150.87	.....
Chiliquin bridge. 4.10	4.10	10.2	146.77	..... Over Williamson's river.
True Shout spring. 11.02	11.02	21.22	135.65	.....
Yainax bridge. 17.72	17.72	38.94	117.93	..... Over Sprague river.
Yainax Indian Agency.. 5.32	5.32	44.26	112.61	..... Sprague river valley; sub agency for Klamath Indians.
Whisky creek bridge. 6.10	6.10	50.36	106.51	..... Sprague river valley.
Honey creek bridge. 4.70	4.70	55.06	101.81	..... do do.
Sprague river P. O. 16.20	16.20	71.26	85.61	..... do do.
Quartz valley creek. 11.10	11.10	82.36	74.51	..... East side of Quartz valley.
Lofton's ranch. 12.20	12.20	94.56	62.31	..... Drew's valley.
Rocky branch. 8.10	8.10	102.66	54.21	..... West side of Goose lake valley.
LAKEVIEW	14.51	117.17	39.70	4851
Hot Springs P. O. 5.86	5.86	123.03	33.84	..... do do.
Willow ranch or Snider's store	17.30	140.33	16.54	..... do do.
Lassen's pass (Summit).. 9.87	9.87	150.20	6.67	6190
FORT BIDWELL, CAL. 6.67	6.67	156.87	.....	4647

NOTE.—From Lakeview a road has been built across the Warner mountains to Fort Bidwell, which is shorter and better than the one via Lassen's pass, saving 9.7 miles. See Table XIX.

Road practicable from May 1 to December 1. (Wittich).

TABLE NO. LVIII.

Fort Klamath to Camp Warner, Oregon.

Compiled and adjusted by Lieut. T. W. Symons, Corps of Engineers, from odometer measurements by Lieuts. G. M. Wheeler and T. W. Symons, Corps of Engineers, and Lieut. W. Wittich, 21st Infantry, 1877-8, and from the table prepared by Lieut. F. K. Ward, 1st Cavalry, in Captain Sladen's list of distances.

LOCALITY.	Distances—Miles.		Altitude.	Authority.	REMARKS.
		From Fort Klamath.			
FORT KLAMATH, OREGON	.....	.....	145.22	4108.4	
Klamath Indian Agency.	6.10	6.10	139.12	Odometer.	} Over Williamson river
Chiliquin bridge	4.10	10.2	129.2	"	
Mammoth spring	7.11	17.31	127.91	"	} Wood, water, and grass plenty.
Junction with Eugene City road	13.13	30.44	114.78	Estimated.	
Yainax or Sprague river bridge	8.12	38.56	106.66	Odometer.	} Water, grass, and sage brush plenty.
Yainax Indian Agency.	5.32	43.88	101.34	"	
Whisky creek	3.00	46.88	98.34	Estimated.	} Water and grass plenty.
Whistler's camp.	6.17	53.05	92.17	"	
Prine's ranch.	7.17	60.22	85.00	"	} Water and wood plenty; no grass.
Big Cottonwood creek	12.00	72.22	73	"	
Round Grove	3.00	75.22	70	"	} Water, wood, and grass plenty.
Quartz valley	5.00	80.22	65	"	
Head of Drew's valley	7.00	87.22	58	"	} Water and grass; no wood.
Mud creek	13.00	100.22	45	"	
Rigg's ranch.	10.00	110.22	35	"	} Wood, water and grass plenty.
Mountain canyon	5.00	115.22	30	"	
Camas prairie.	12.00	127.22	18	"	} Wood, water and grass plenty.
Twelve-mile creek	6.00	133.22	12	"	
CAMP WARNER, OREGON	12.00	145.22	.....	5730	

NOTE.—Road practicable for heavy wagons from June 1st to December 1st; closed the remainder of the year by snow and high water. From Rigg's ranch it is only 18 miles to Camp Warner by a trail, which is very rough, but can be traveled by pack train during the summer. (Lieut. Ward).

TABLE NO. LIX.

Camp Warner, Oregon, to Camp McDermitt, Nevada.

From Captain Lydecker's Tables, Headquarters Military Division of the Pacific, 1873.

LOCALITY.	Distances—Miles.		Altitude	Authority.	REMARKS.
		From Camp Warner.			
CAMP WARNER, OREGON			185.67		
Honey lake (Isch's ranch)	15	15	170.67	Estimated.	Road practicable for wagons from May 1st till snow falls.
Warner lake	12	27	153.67	"	
Old Camp Warner	10	37	148.67	"	Water at all the stations; grazing fair; sage brush fuel.
Beattie's Butte	24	61	124.67	"	
Water holes	29	90	95.67	"	Road good; wood, water and grass plenty.
Skull creek flat	6	96	89.67	"	
Wild Horse creek	18	114	71.67	"	
Camp C. F. Smith	24	138	47.67	"	
Forks of road	4.25	142.25	43.42	Odometer	
McElroy creek	6.42	148.67	37.00	"	
Wood ranch	12.0	160.67	25.0	"	
Ten-mile creek	15.0	175.67	10.0	"	
CAMP McDERMIT, NEV.	10	185.67	4700	"	

NOTE.—The distances from Camp Warner to Camp C. F. Smith are estimated by Captain H. Wagner, 1st Cavalry; those from Camp C. F. Smith to Camp McDermitt were measured by Major Henry M. Robert, Corps of Engineers.

TABLE NO. LX.

Camp Three Forks, I. T., to Camp McDermit, Nevada.

Estimated by Captain H. Wagner, 1st Cavalry.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
		From Camp Three Forks		
CAMP THREE FORKS, I. T.	139	Route of Northwestern Mail Company's stages from about 2 miles before reaching Hill's ranch to Camp McDermit. Road open during entire year. Water plentiful; sage brush for grazing and fuel.
Hill's ranch.....	21	21	118	
Ranch.....	9	30	109	
Inskipp's ranch.....	14	44	95	
Sheep ranch.....	18	62	77	
Owyhee ferry.....	6	68	71	
Dry creek.....	13	81	58	
Rattlesnake creek.....	11	92	47	
Battle creek.....	11	103	36	
Summit station.....	10	113	26	
Ten-mile creek.....	16	129	10	
CAMP McDERMIT, NEV..	10	139	4700	

NOTE.—A more direct road, a little to the eastward of the above, crosses the Owyhee a little above the forks, and is practicable for lightly-laden wagons during summer and fall. Water, on this road, may be found 16 miles from Camp McDermit, at Antelope creek, 25 miles beyond, and then at Owyhee, which is about 22 miles from Camp Three Forks. Camp Three Forks was abandoned as a military post in 1870.

TABLE NO. LXI.

Canyon City to Baker City, Oregon.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
		From Canyon City	
CANYON CITY, OREGON..	.....	.....	69
Prairie City.....	14	14	55
Penola.....	16	30	39
Sumter.....	9	39	30
Auburn.....	18	57	12
BAKER CITY.....	12	69	.....

NOTE.—Daily mail over this route.

TABLE NO. LXII.

Canyon City to Pendleton, Oregon.

Compiled from P. O. Route Map by Lieut. T. W. Symons, Corps of Engineers.

LOCALITY.	Distances—Miles.		REMARKS.
		From Canyon City	From Pendleton.
CANYON CITY, OREGON..	.....	.....	144
Prairie City	14	14	130
Robinsonville	27	41	103
Granite	12	53	91
Starkey	40	93	51
Pilot Rock	35	128	16
PENDLETON	16	144	.....

NOTE.—Mail over this route once a week.

TABLE NO. LXIII.

Alturas, (Dorris' Bridge) California, to Warner Valley, Oregon. (Jones' Ranch)—via Lakeview and Warner Canyon.

From odometer measurements by Lieut. T. W. Symons, Corps of Engineers, 1877.

LOCALITY.	Distances—Miles.		Altitude.	REMARKS.
		From Alturas.	From Jones ranch.	
ALTURAS	100.35	County seat of Modoc county.
Cedarville road junction..	6.63	6.63	93.72	
Lake City road junction..	11.29	17.92	82.43	
Lassen's creek	13.78	31.70	68.65	
Willow ranch, or Snider's store	3.14	34.84	65.51	County seat of Lake county.
Boundary line of Califor- nia and Oregon	7.78	42.62	57.73	
Cogswell's creek	6.25	48.87	51.48	
LAKEVIEW	9.20	58.07	42.28	
Head of Camas prairie ..	10.01	68.08	32.27	
Cottage springs	15.62	83.70	16.65	
Jones' ranch, Warner Val.	16.65	100.35	44.67	

NOTE.—Good water, wood and feed all along the route.

TABLE NO. LXIV.

Ainsworth to Spokane Falls, W. T.—via N. P. R. R.

Furnished by H. M. McCartney, Engineer N. P. R. R.

LOCALITY.	Distances—Miles.			REMARKS.
		From Ainsworth.	From Spo- kane Falls.	
AINSWORTH .....	...	.....	150	
Eagle Rock well, No. 4..	40	40	110	
Summit Esquaitzel and Providence Coulees....	19	59	91	
Ritzville	26	85	65	
Foot Big lake.....	15	100	50	
SPRAGUE.....	8	108	42	
Cheney.....	27	135	15	
SPOKANE FALLS.....	15	150	.....

NOTE.—Until completion of railroad, stages will leave end of track and make through connection.

TABLE NO. LXV.

Spokane Falls to Fort Colville, W. T.

Compiled by Lieut. T. W. Symons, Corps of Engineers.

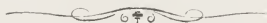
LOCALITY.	Distances—Miles.			REMARKS.
		From Spo- kane Falls.	From Fort Colville.	
SPOKANE FALLS, W. T..	.....	.....	96.48	
Deep creek falls.....	15.68	15.68	80.80	Measured.
Spokane river.....	20	35.68	60.80	Estimated.
Haines' ranch.....	6.90	42.58	53.90	Measured.
Sheep creek.....	14.7	57.28	39.20	do.
Brown's ranch, (Fool's prairie)	14.2	71.48	25.00	do.
FORT COLVILLE, W. T..	25	96.48	.....	do.

TABLE NO. LXVI.

Portland, Oregon, to Walla Walla, W. T.—via Oregon Railway and Navigation Company's Boats and Trains.

Compiled by Lient. T. W. Symons, Corps of Engineers, from data furnished by O. R. & N. Co.

LOCALITY.	Distances—Miles.			REMARKS.
		From Portland.	From Walla Walla.	
PORTLAND, OREGON			268	
Vancouver.....	18	18	250	Steamer.
Lower Cascades	45	63	205	do.
Upper Cascades.....	6	69	199	Railroad.
Hood river.....	18	87	181	Steamer.
Klickitat.....	13	100	168	do.
THE DALLES.....	10	110	158	do.
Celilo.....	14	124	144	Railroad.
Des Chutes.....	4	128	140	do.
Grant's.....	6	134	134	do.
John Day's.....	10	144	124	do.
Quinn's.....	7	151	117	do.
Blalock's	6	157	111	do.
Lang's.....	5	162	106	do.
Willow's.....	13	175	93	do.
UMATILLA.....	34	209	59	do.
Cold springs	9	218	50	do.
Fordyce	6	224	44	do.
Walla Junction.....	12	236	32	do.
Cumming's.....	4	240	28	do.
Touchet	12	252	16	do.
Frenchtown	8	260	8	do.
Whitman Junction.....	3	263	5	Blue Mountain extension :
				to State line..... 3 miles.
				to Milton..... 4 7 miles.
				To Blue Mountain..... 7 14 miles.
WALLA WALLA, W. T..	5	268	.....	Railroad.





Distances from U. S. Indian Agencies to nearest Towns or Cities.

The following distances are furnished by the Indian Agents of the respective Reservations, whose names are given.

Grand Ronde Agency, Oregon—P. B. Sinnot, Agent.

FROM AGENCY.	MILES.	
To Salem, Oregon.....	38	Estimated.
To St. Joseph, Oregon	31	do
To Dayton, Oregon.....	32½	do.

Klamath Agency, Oregon.—L. S. Dyar, Agent.

FROM AGENCY.	MILES.	
To Linkville, Oregon.....	29	Measured.
To Fort Klamath, Oregon.....	6	do

Malheur Agency, Oregon.—W. V. Rinehart, Agent.

FROM AGENCY.	MILES.	
To Canyon City, Oregon	78	

Neah Bay Agency, W. T.—C. A. Huntington, Agent.

FROM AGENCY.	MILES.	
To Port Townsend, W. T.....	100	By water.

Puyallup, Nesqually, and Chehalis Agency, W. T.—R. H. Milroy, Agent.

FROM AGENCY.	MILES.	
Puyallup to Tacoma, W. T.....	2	} By water.
Muckleshoot to Tacoma.....	3	
Nesqually to Yelm Station	20	} By road.
Chehalis to Tenino.....	5	
Squaksin to Olympia, W. T.....	14	
	9	N. P. R. R.
		do.

Quinalt Agency, W. T.—G. A. Henry, Agent.

TO ASTORIA, OREGON.	MILES.	MILES.	
To Chehalis Point, W. T.....	36	36	Estimated.
To Johnson's Landing (Shoalwater Bay)	14	50	do.
To Oysterville.....	20	70	do.
To Unity.....	25	95	do.
To Astoria, Oregon	15	110	do.
TO OLYMPIA, W. T.			
To Chehalis Point	36	36	do.
To Montisano.....	40	76	do.
To Olympia	60	136	do.

Indian Agencies.—Continued.

Siletz Agency, Oregon.—William Bagley, Agent.

FROM AGENCY.	MILES.	
To Albany, Oregon.....	72	Estimated.

Skokomish Agency, W. T.—Edwin Eells, Agent.

TO PORT TOWNSEND, W. T.	MILES.	MILES.	
To Seabeck.....	29.7	29.7	
To Port Gamble.....	19.0	48.7	
To Port Ludlow.....	8.7	57.4	
To Port Townsend.....	17.0	74.4	
TO OLYMPIA, W. T.			
To Olympia.....		30	By land.
To Oakland.....	10	10	do.
To Olympia.....	20	30	By water.

NOTE.—The distances from Agency to Port Townsend are given by Captain J. S. Lawson, United States Coast Survey.

Umatilla Agency, Oregon.—N. A. Connoyer, Agent.

FROM AGENCY.	MILES.	
To Pendleton, Oregon.....	4 5	By trail. Estimated. By stage road. Estimated.

Warm Spring Agency.—John Smith, Agent.

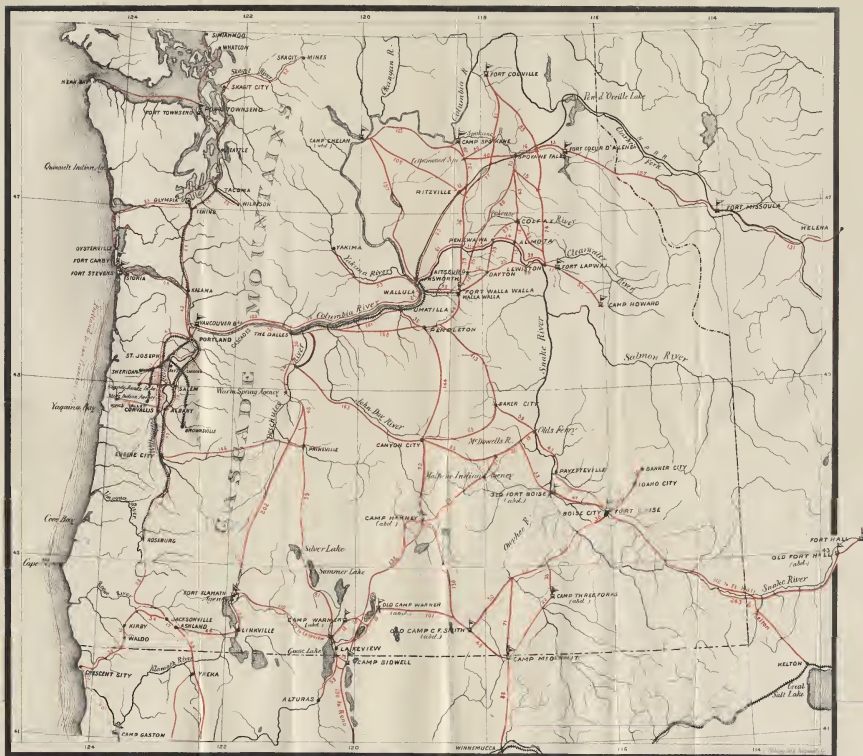
FROM AGENCY.	MILES.	
To The Dalles.....	74.25	Measured.

Yakima Agency, W. T.—James H. Wilber, Agent

FROM AGENCY.	MILES.	
To The Dalles, Oregon.....	65	
To Umatilla.....	60 90	By direct road. By mail route.

MAP OF THE DEPARTMENT OF THE COLUMBIA

SHOWING ROUTES OF TRAVEL HEREWITH PUBLISHED.



JANUARY, 1981.

COMPILED BY THOMAS W. SYMONS, CORPS OF ENGINEERS,
CHIEF ENGINEER, DEPT. OF THE COLUMBIA.

SCALE 60 MILES TO ONE INCH.

